

*Supplementary materials for*

# **Six unprecedented Cytochalasins Derivatives from the Potato Endophytic Fungus *Xylaria curta* E10 and Their Cytotoxicity**

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## Spectroscopic data

Figure S1.1  $^1\text{H}$  NMR spectrum of **1** in  $\text{DMSO}-d_6$

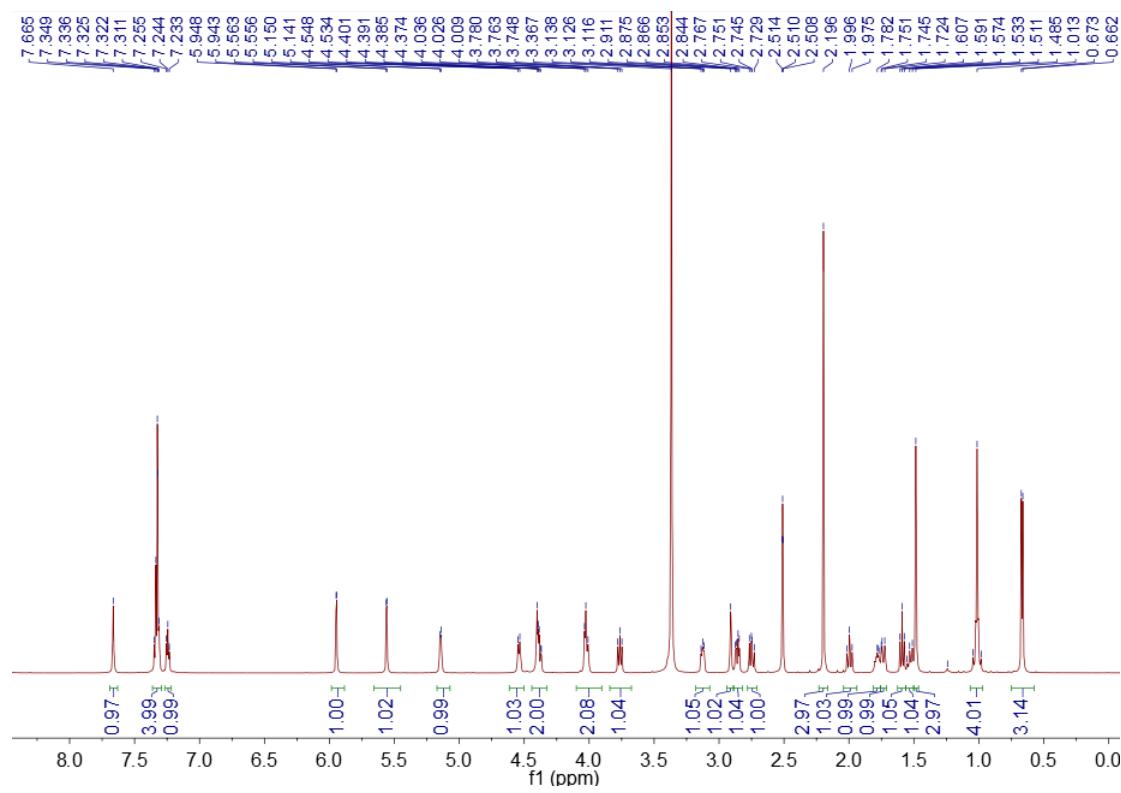


Figure S1.2  $^{13}\text{C}$  NMR spectrum of **1** in  $\text{DMSO}-d_6$

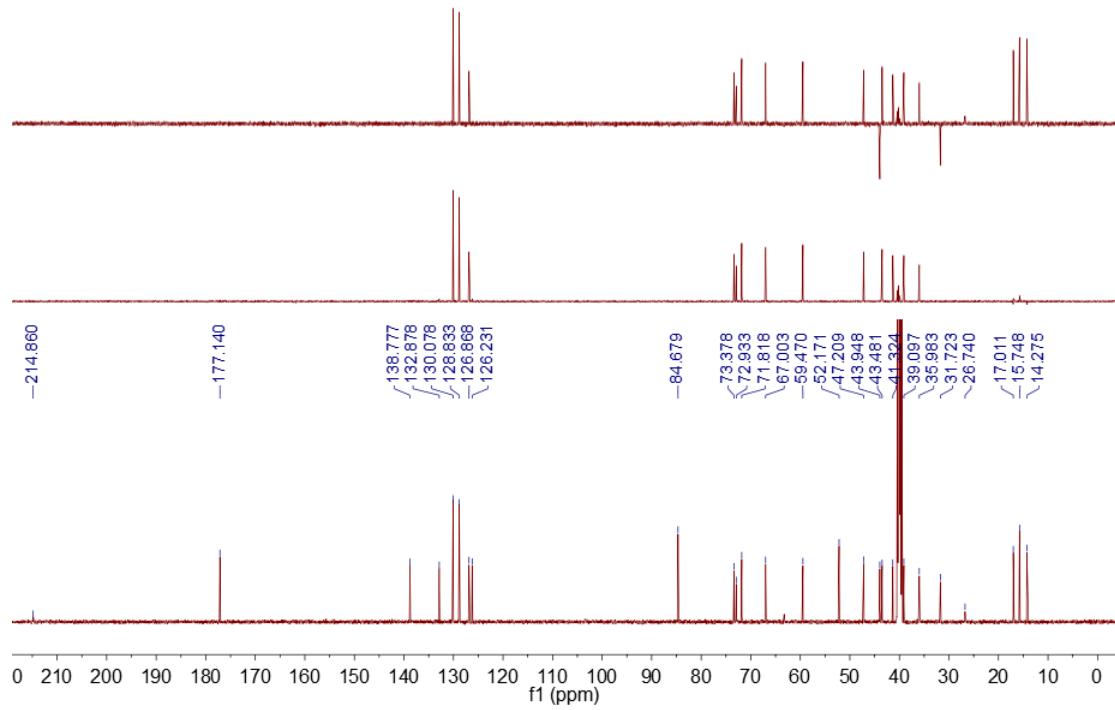


Figure S1.3 HSQC spectrum of **1** in  $\text{DMSO}-d_6$

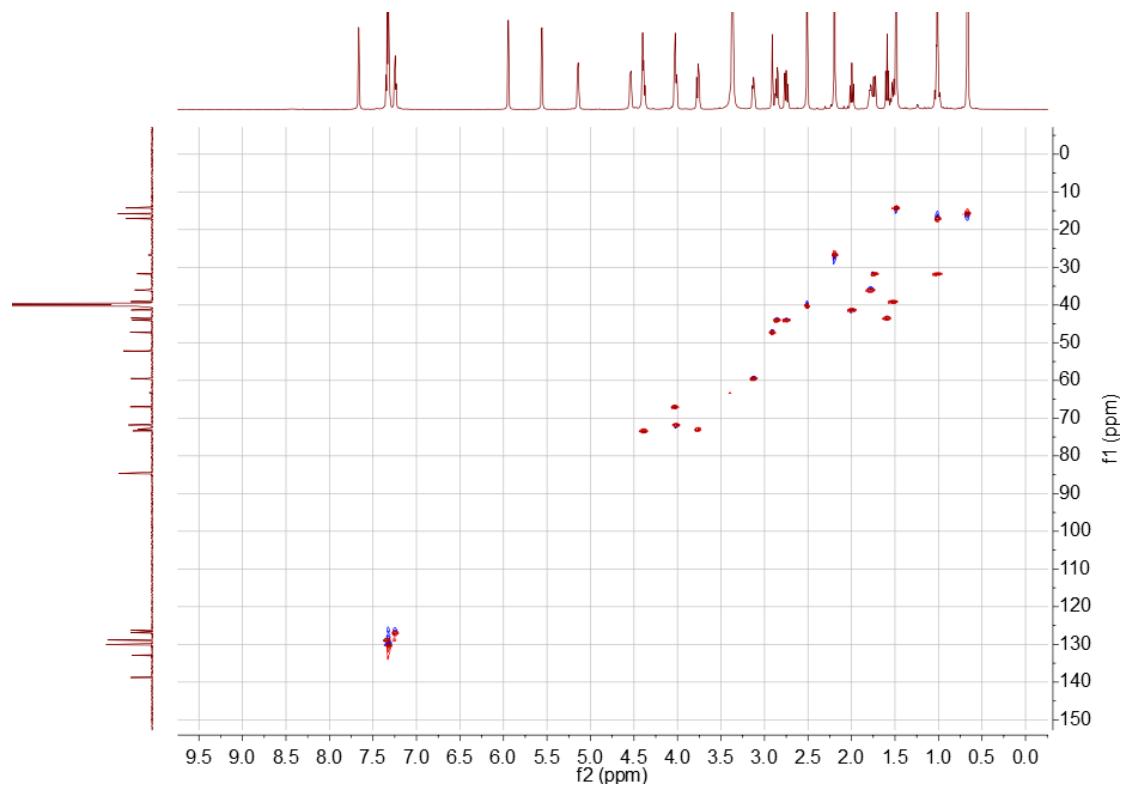


Figure S1.4 HMBC spectrum of **1** in  $\text{DMSO}-d_6$

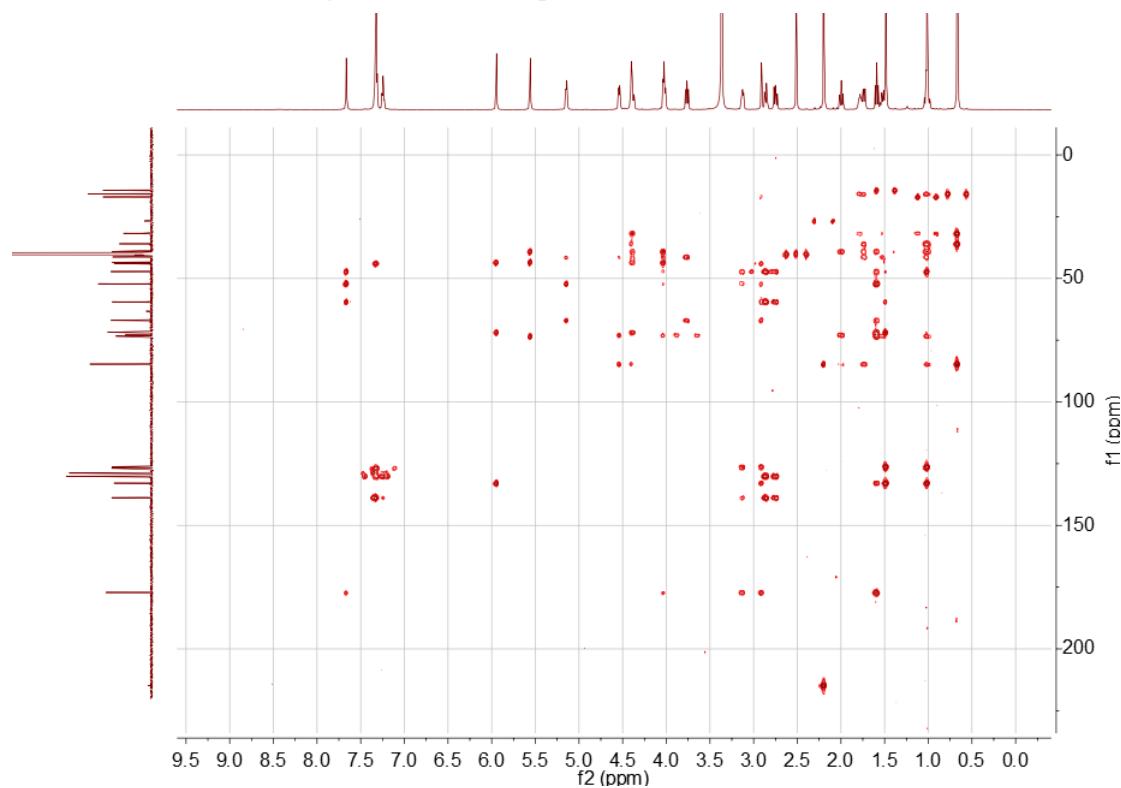


Figure S1.5 COSY spectrum of **1** in  $\text{DMSO}-d_6$

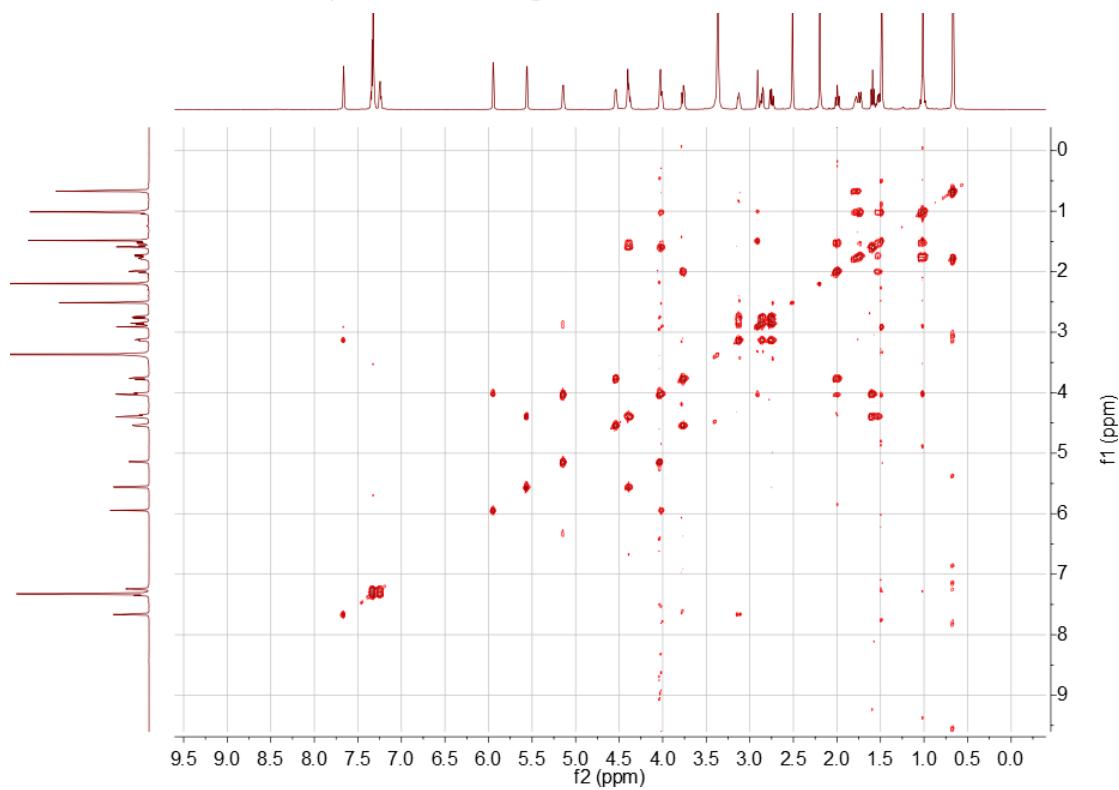


Figure S1.6 ROESY spectrum of **1** in  $\text{DMSO}-d_6$

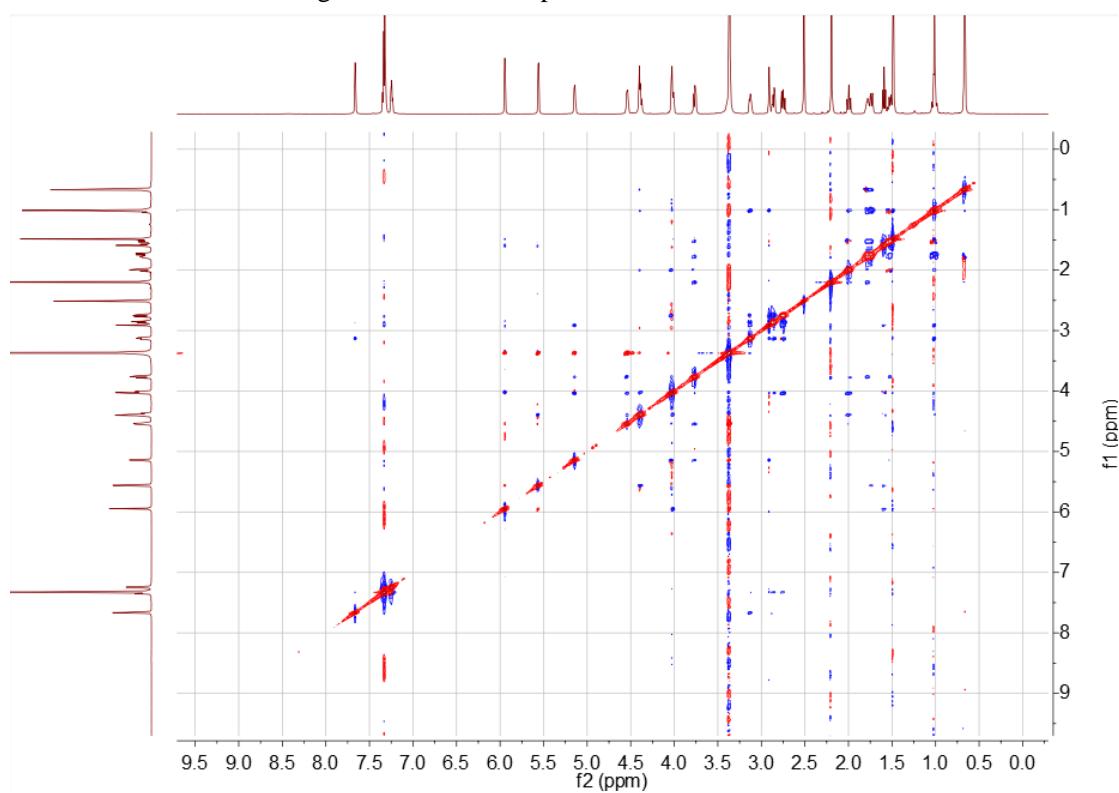


Figure S1.7 HRMS spectrum of **1**

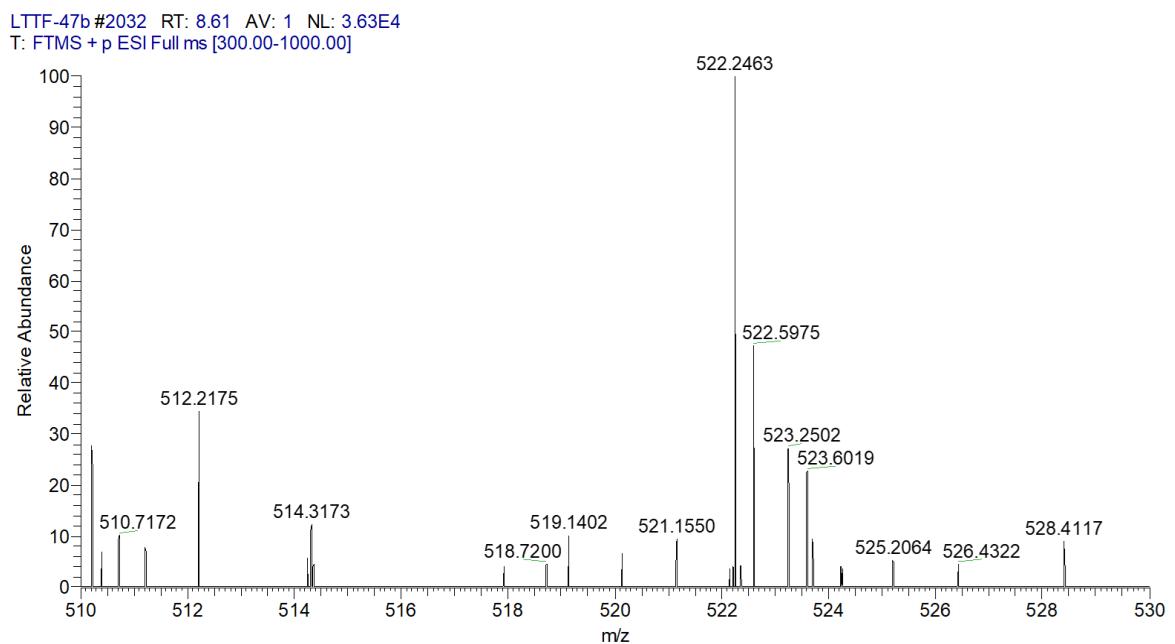


Figure S2.1  $^1\text{H}$  NMR spectrum of **2** in  $\text{DMSO}-d_6$

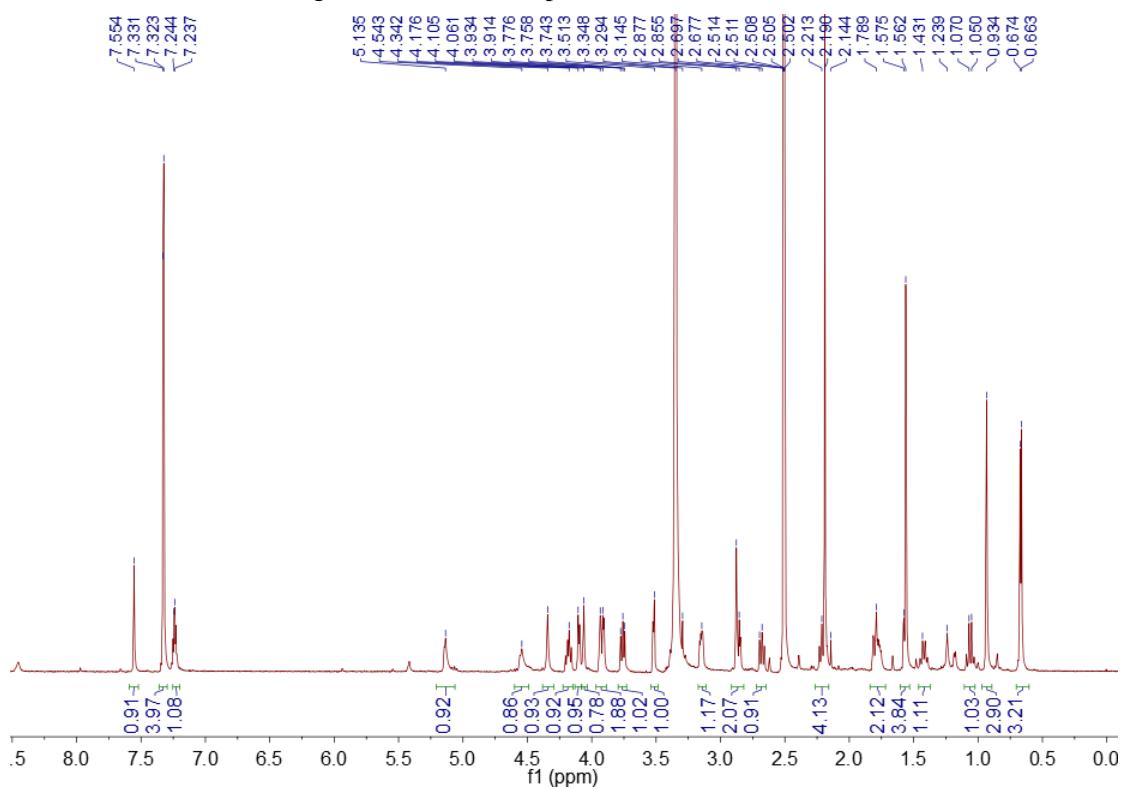


Figure S2.2  $^{13}\text{C}$  NMR spectrum of **2** in  $\text{DMSO}-d_6$

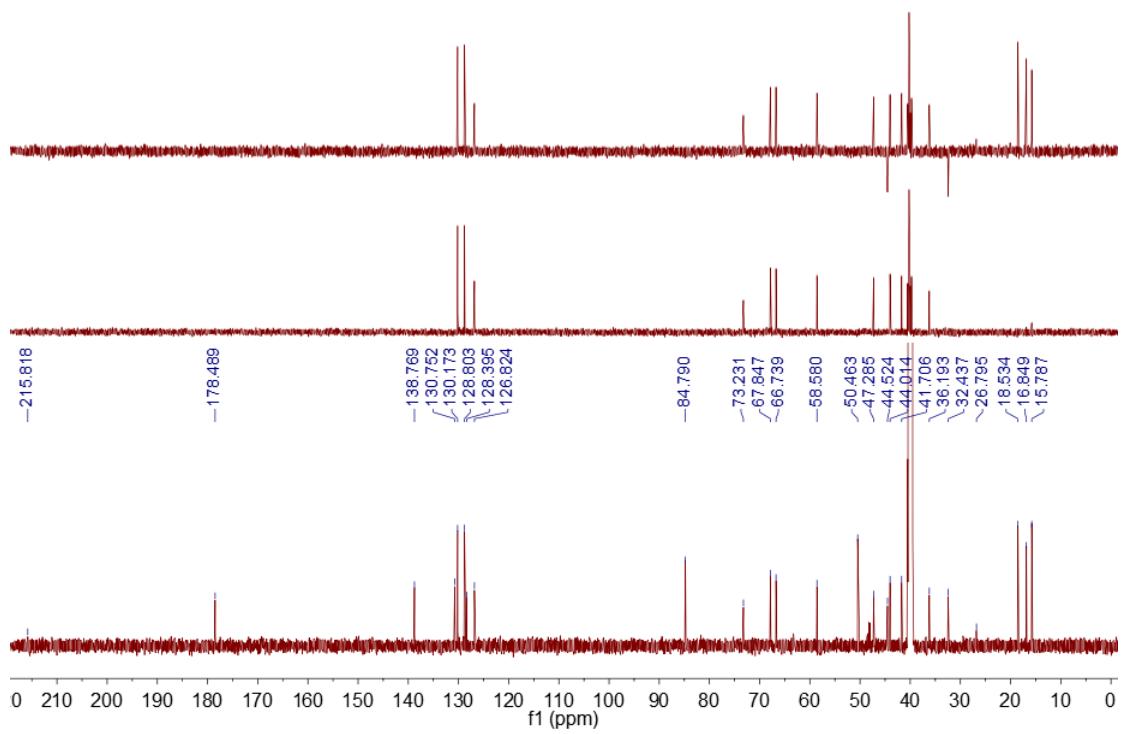


Figure S2.3 HSQC spectrum of **2** in DMSO-*d*<sub>6</sub>

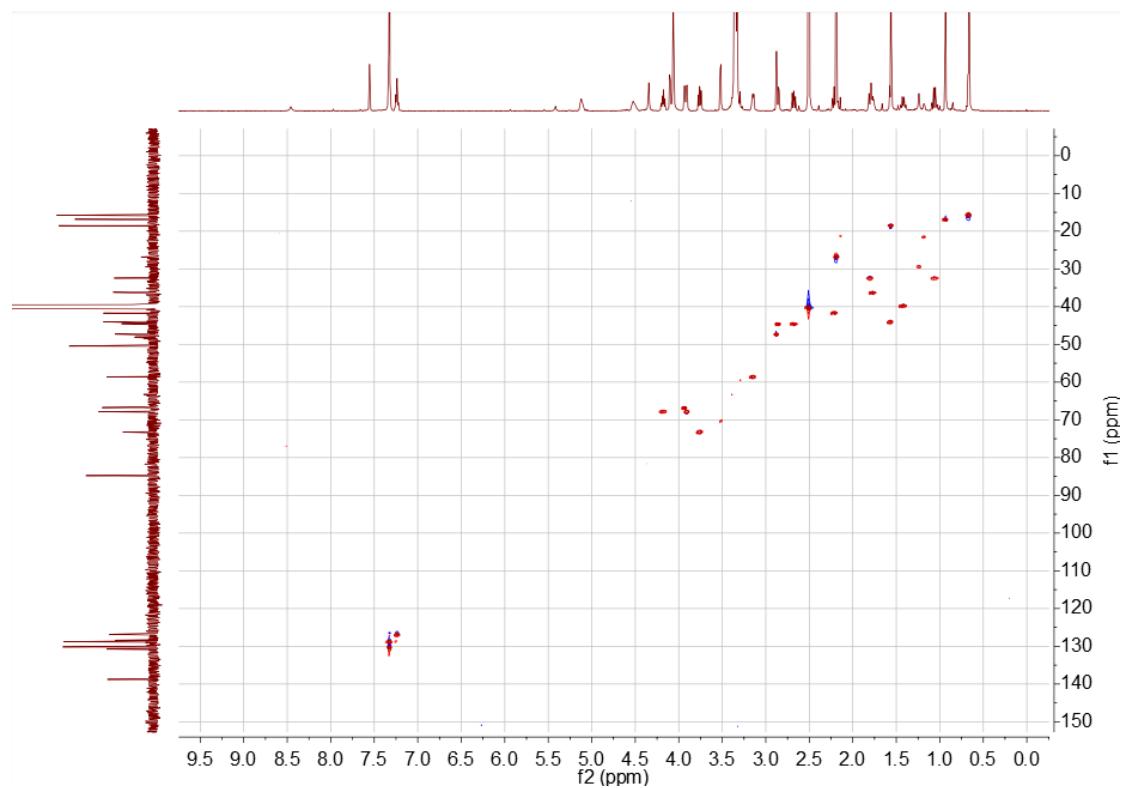


Figure S2.4 HMBC spectrum of **2** in DMSO-*d*<sub>6</sub>

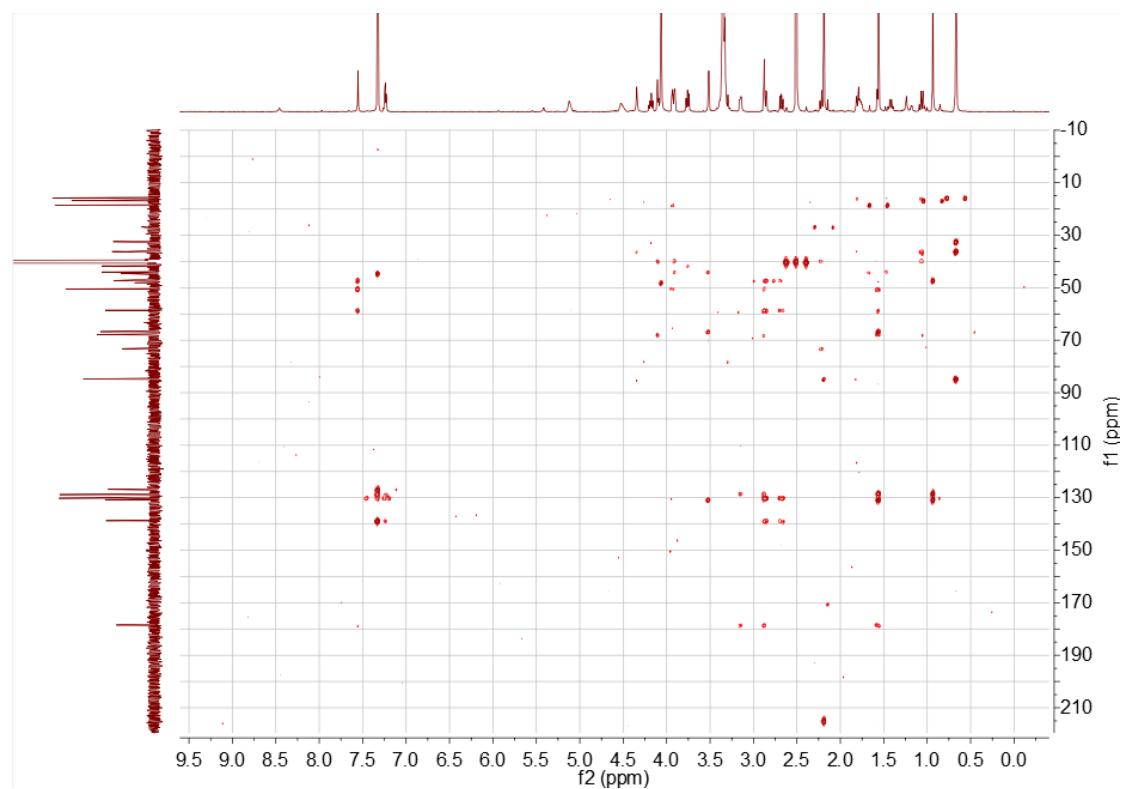


Figure S2.5 COSY spectrum of **2** in DMSO-*d*<sub>6</sub>

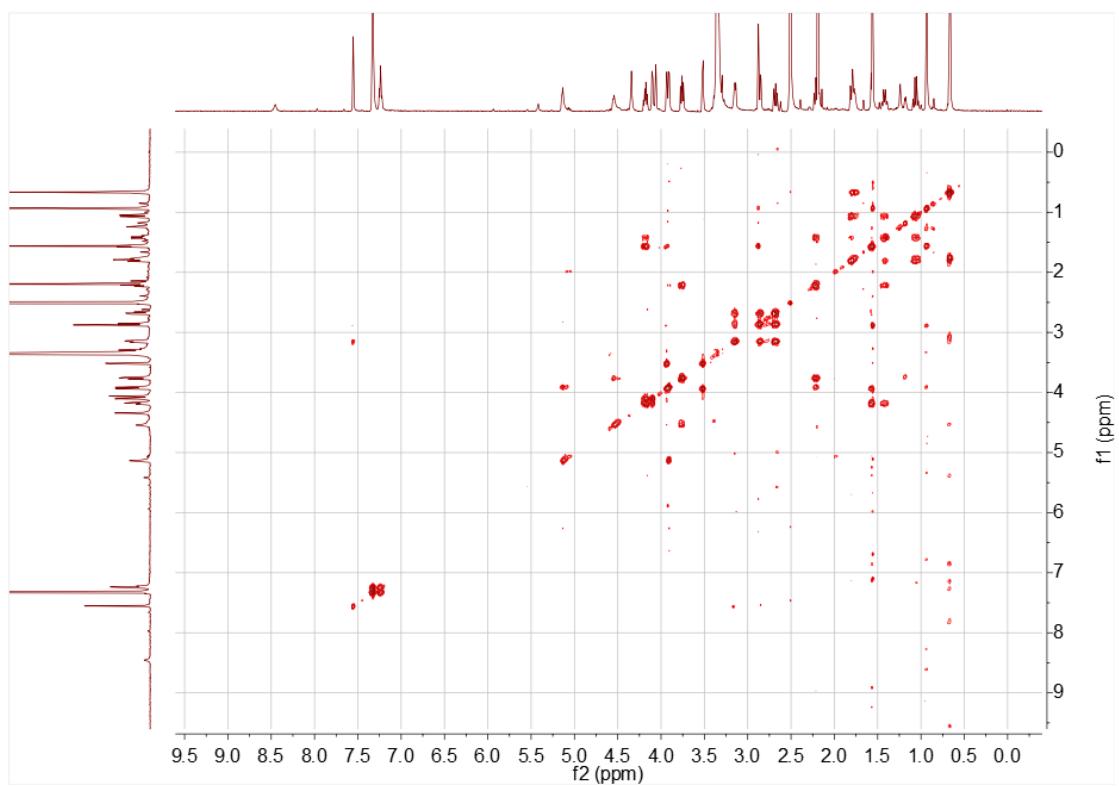


Figure S2.6 Roesy spectrum of **2** in DMSO-*d*<sub>6</sub>

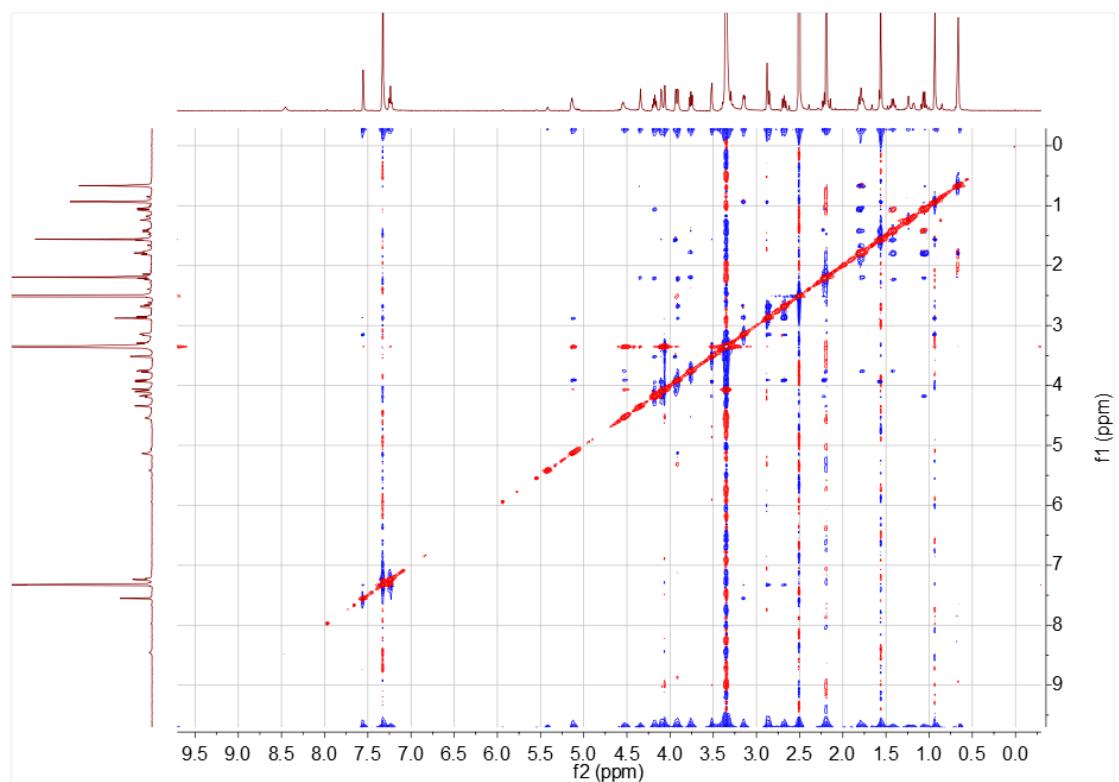


Figure S2.7 HRMS spectrum of **2**

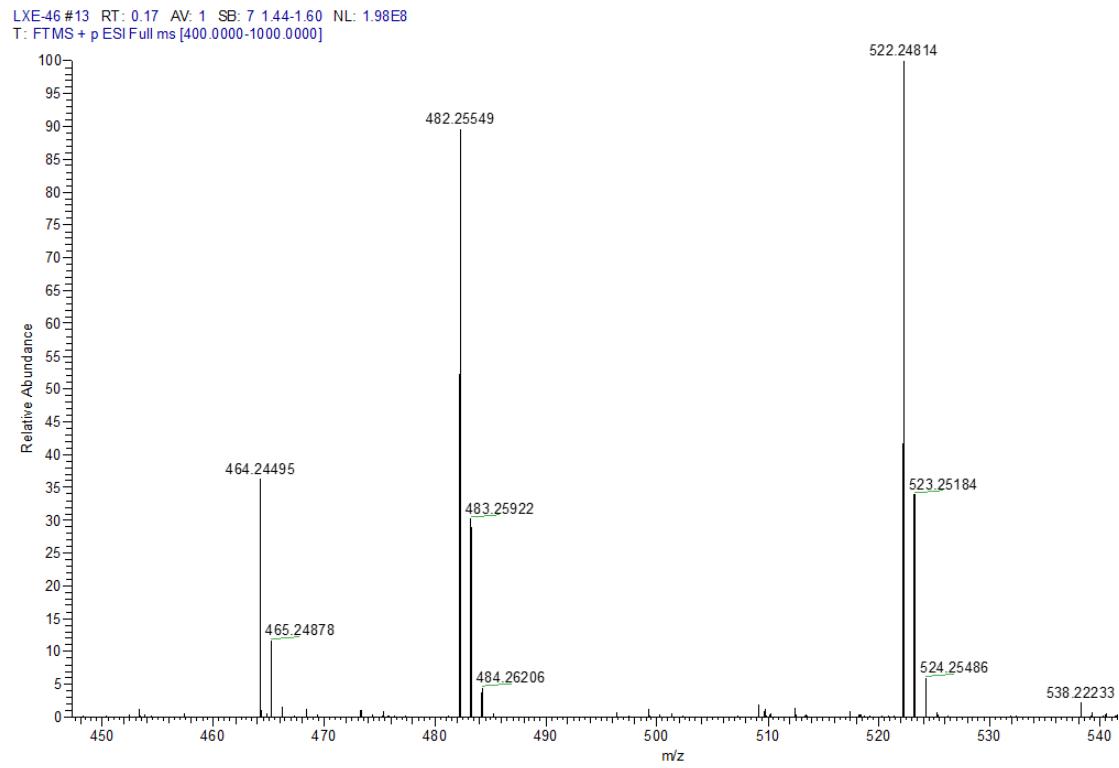


Figure S3.1  $^1\text{H}$  NMR spectrum of **3** in  $\text{CD}_3\text{OD}$

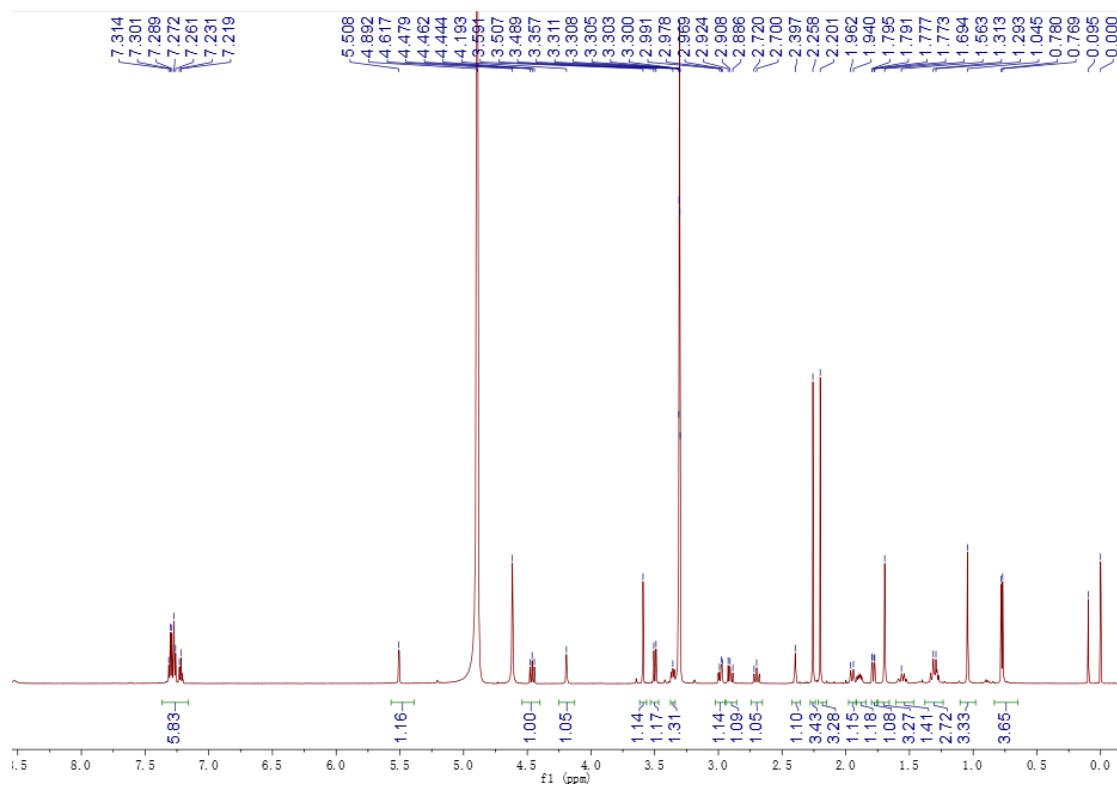


Figure S3.2  $^{13}\text{C}$  NMR spectrum of **3** in  $\text{CD}_3\text{OD}$

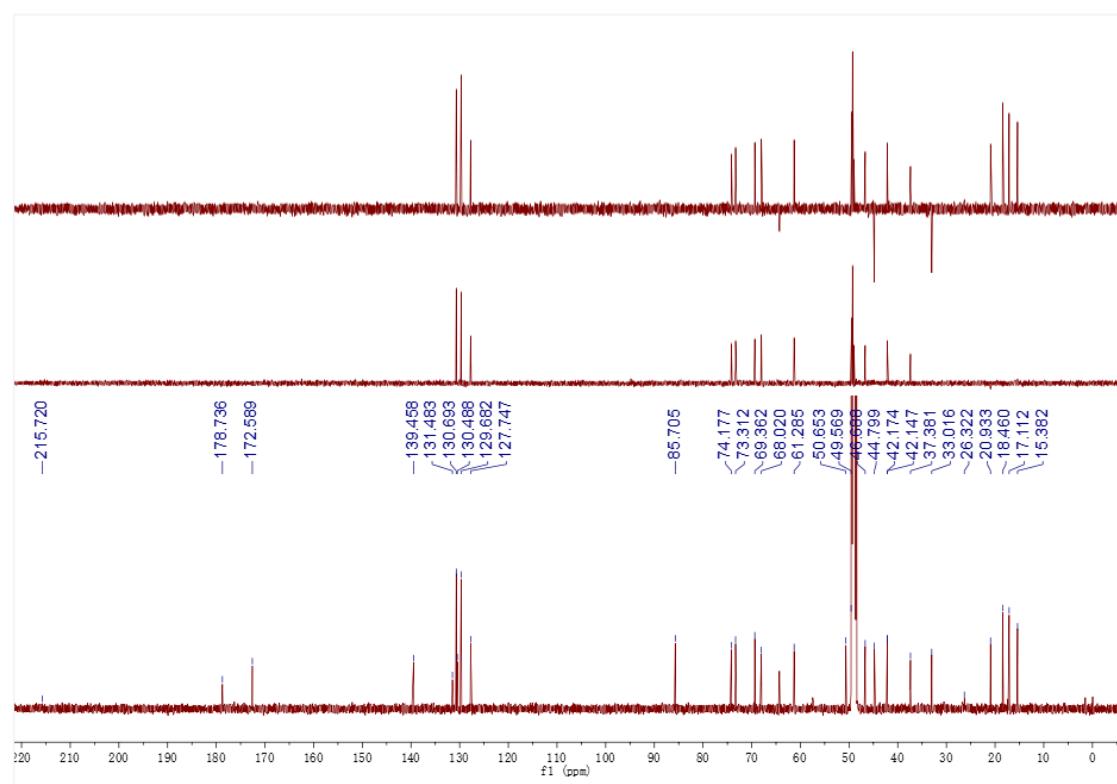


Figure S3.3 HSQC spectrum of **3** in CD<sub>3</sub>OD

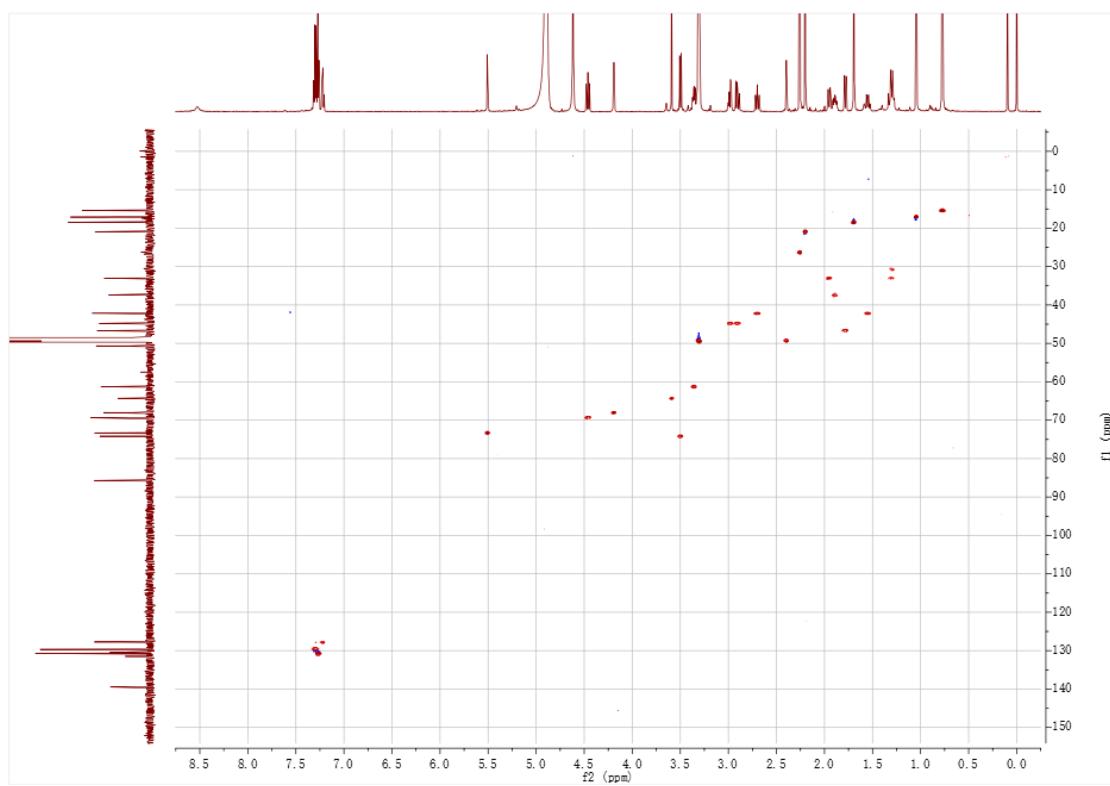


Figure S3.4 HMBC spectrum of **3** in CD<sub>3</sub>OD

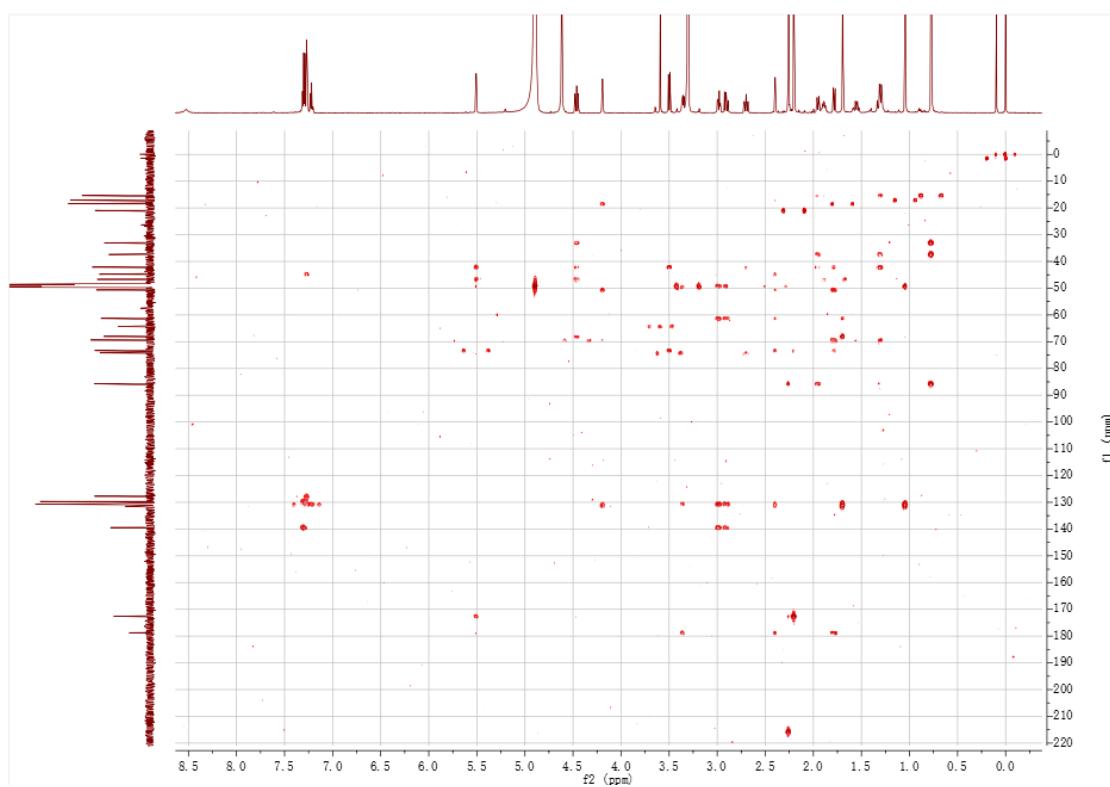


Figure S3.5 COSY spectrum of **3** in CD<sub>3</sub>OD

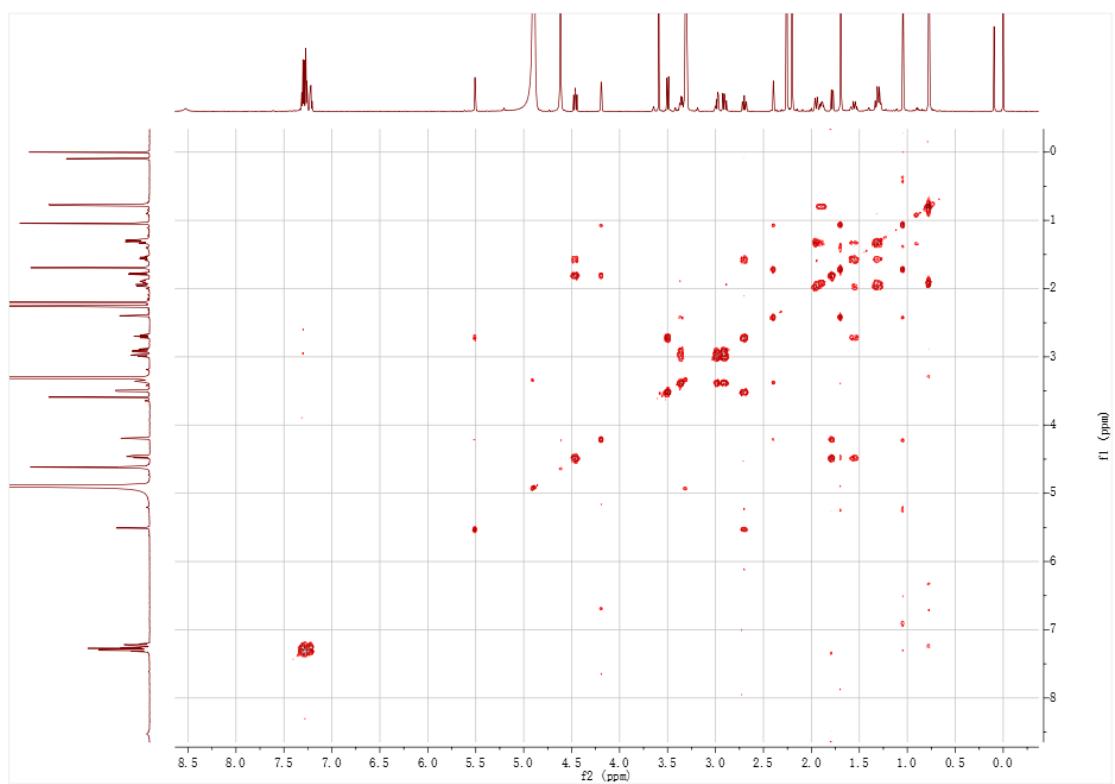


Figure S3.6 Roesy spectrum of **3** in CD<sub>3</sub>OD

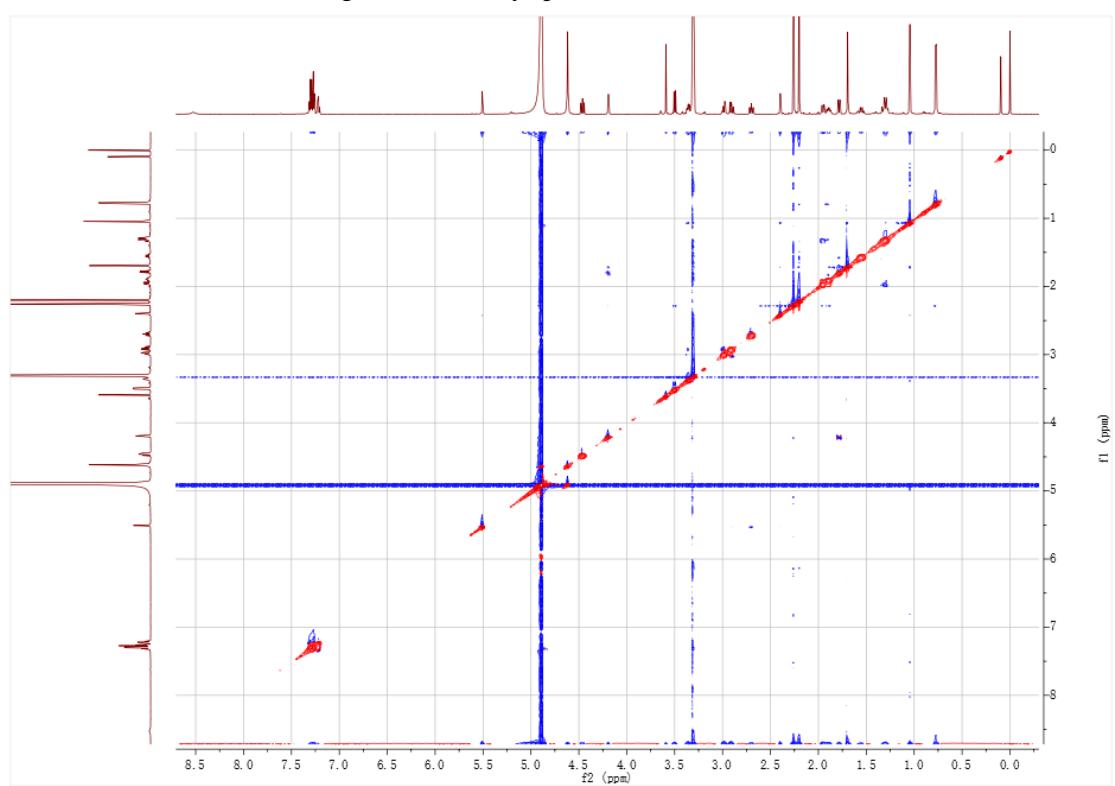


Figure S3.7 HRMS spectrum of **3**

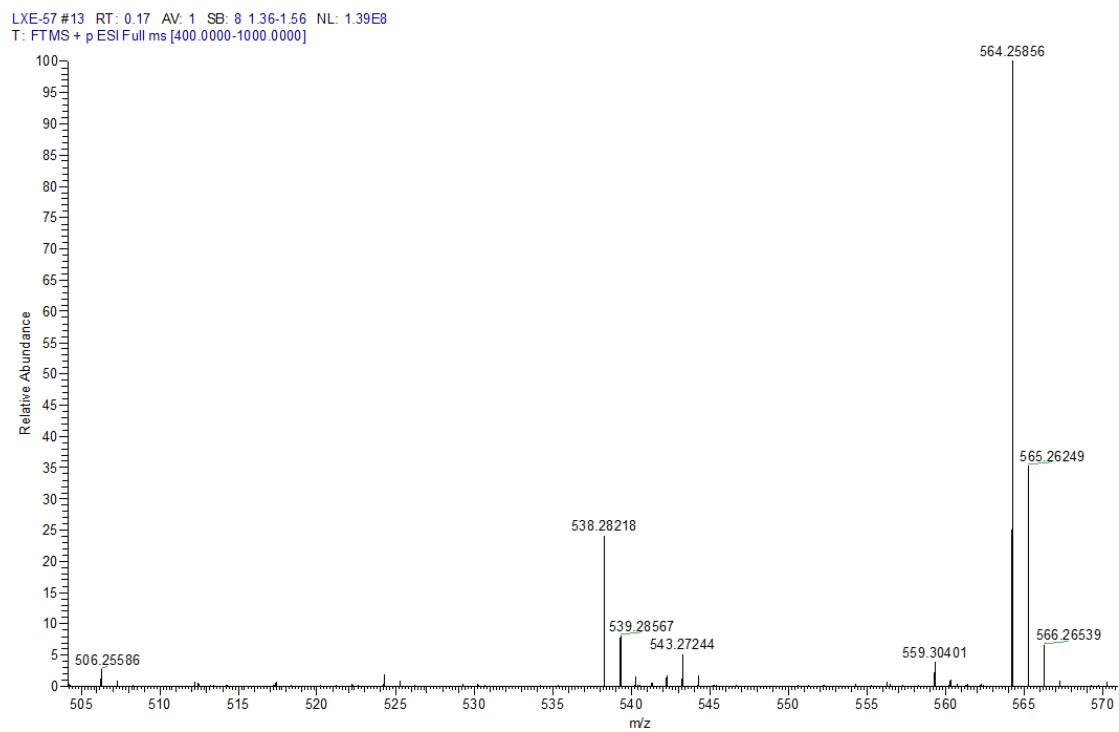


Figure S4.1  $^1\text{H}$  NMR spectrum of **4** in  $\text{CD}_3\text{OD}$

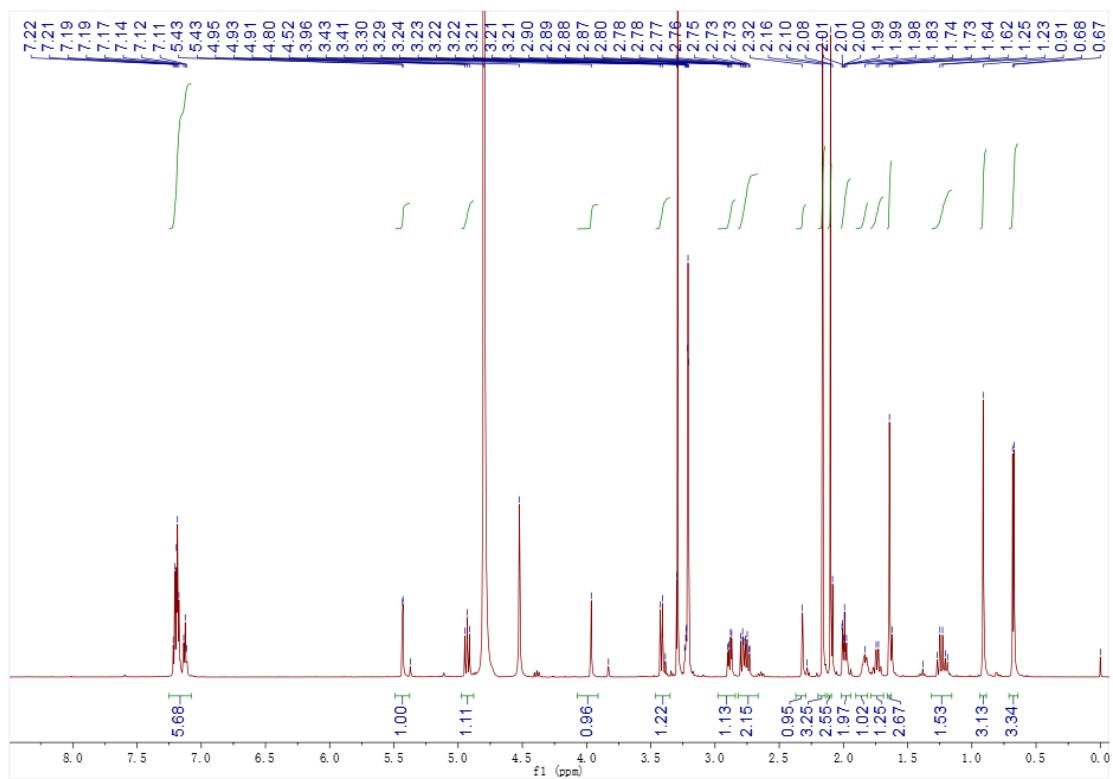


Figure S4.2  $^{13}\text{C}$  NMR spectrum of **4** in  $\text{CD}_3\text{OD}$

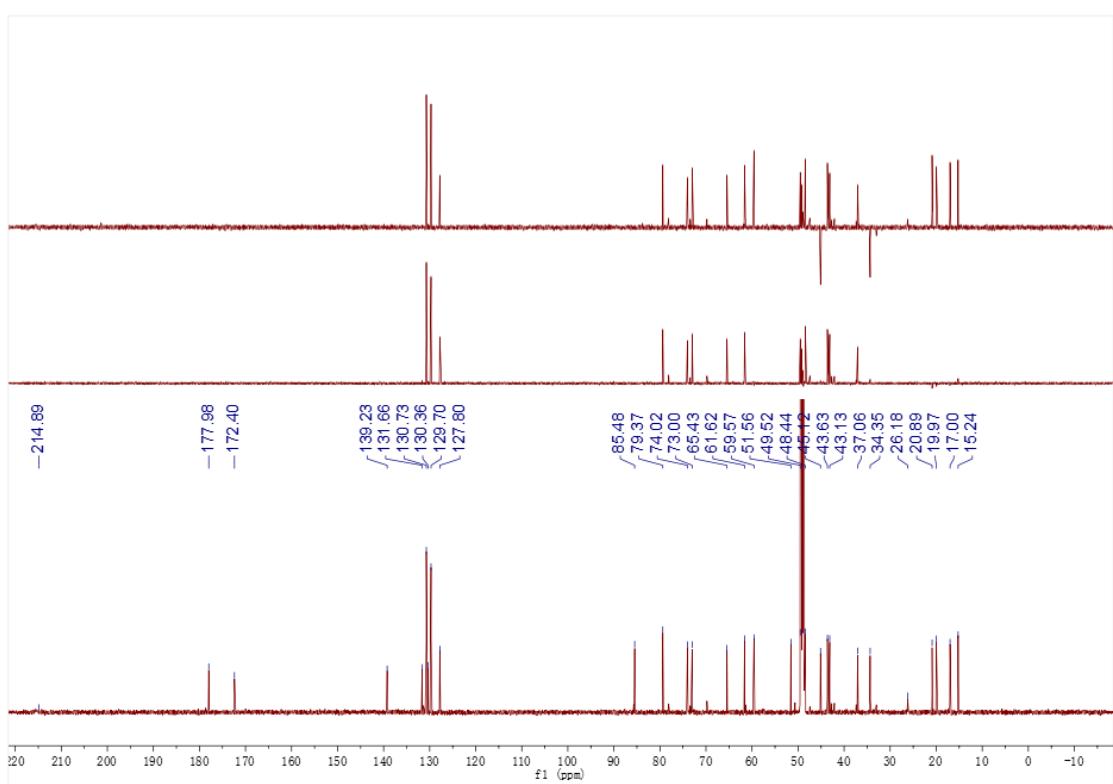


Figure S4.3 HSQC spectrum of **4** in CD<sub>3</sub>OD

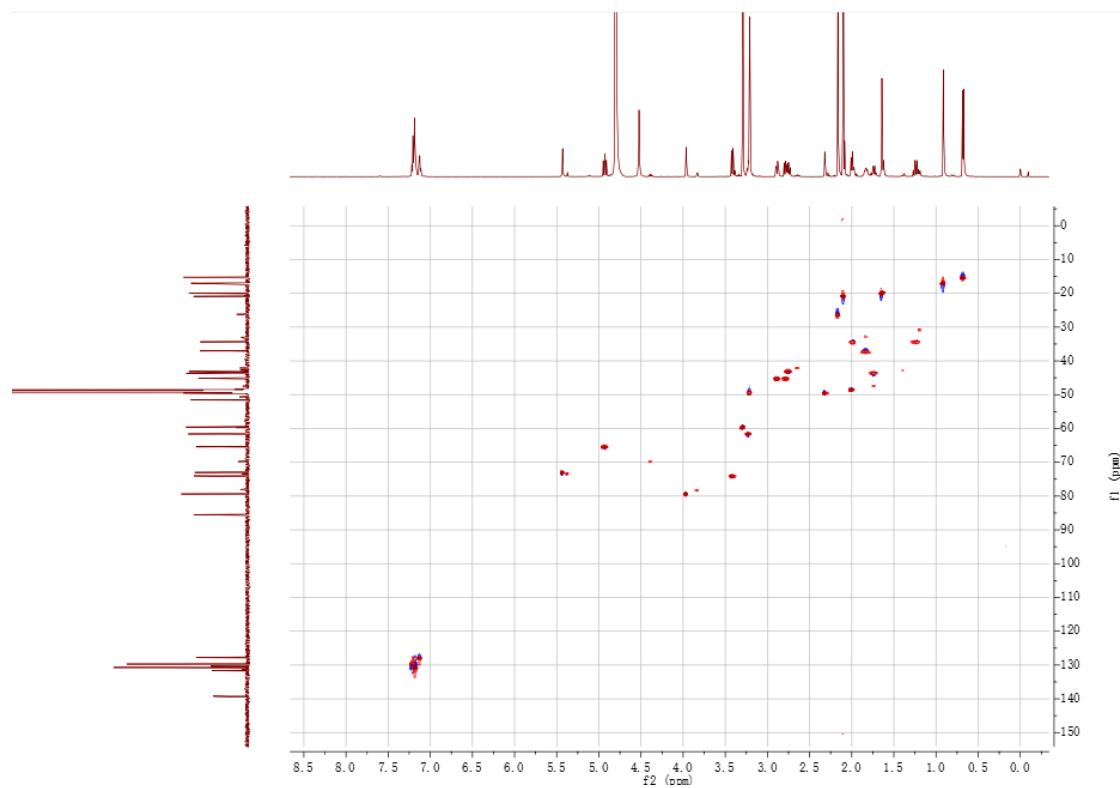


Figure S4.4 HMBC spectrum of **4** in CD<sub>3</sub>OD

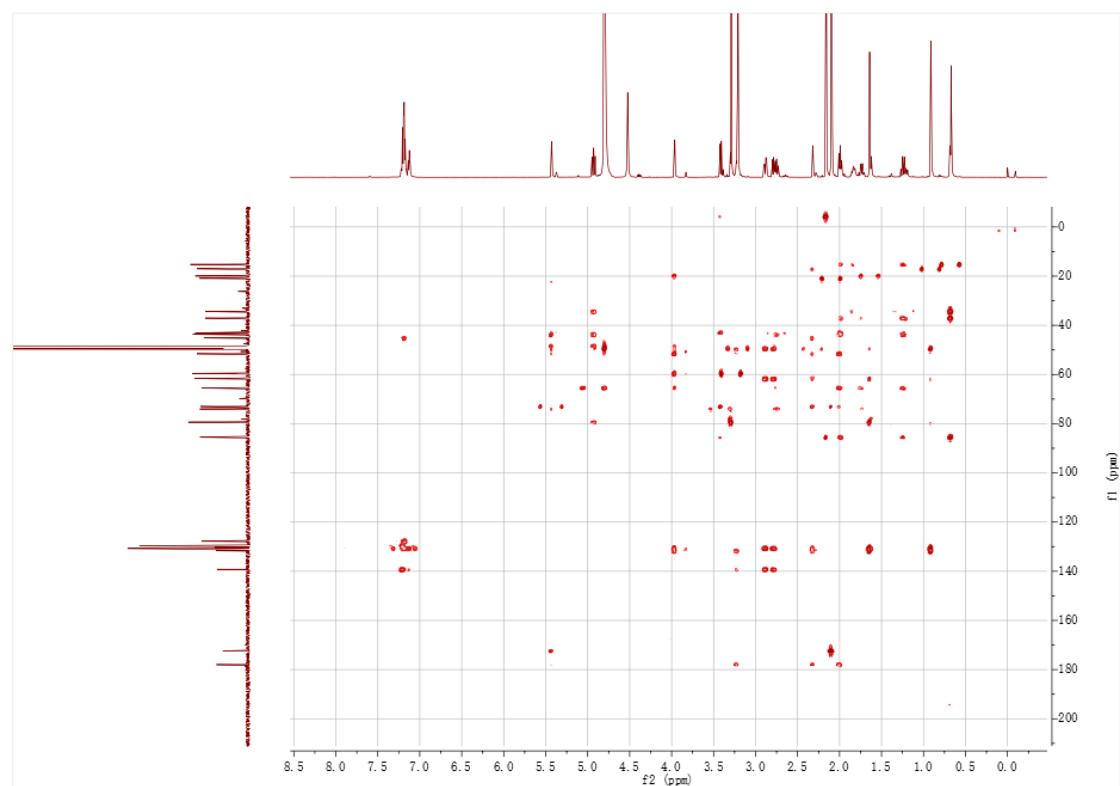


Figure S4.5 COSY spectrum of **4** in CD<sub>3</sub>OD

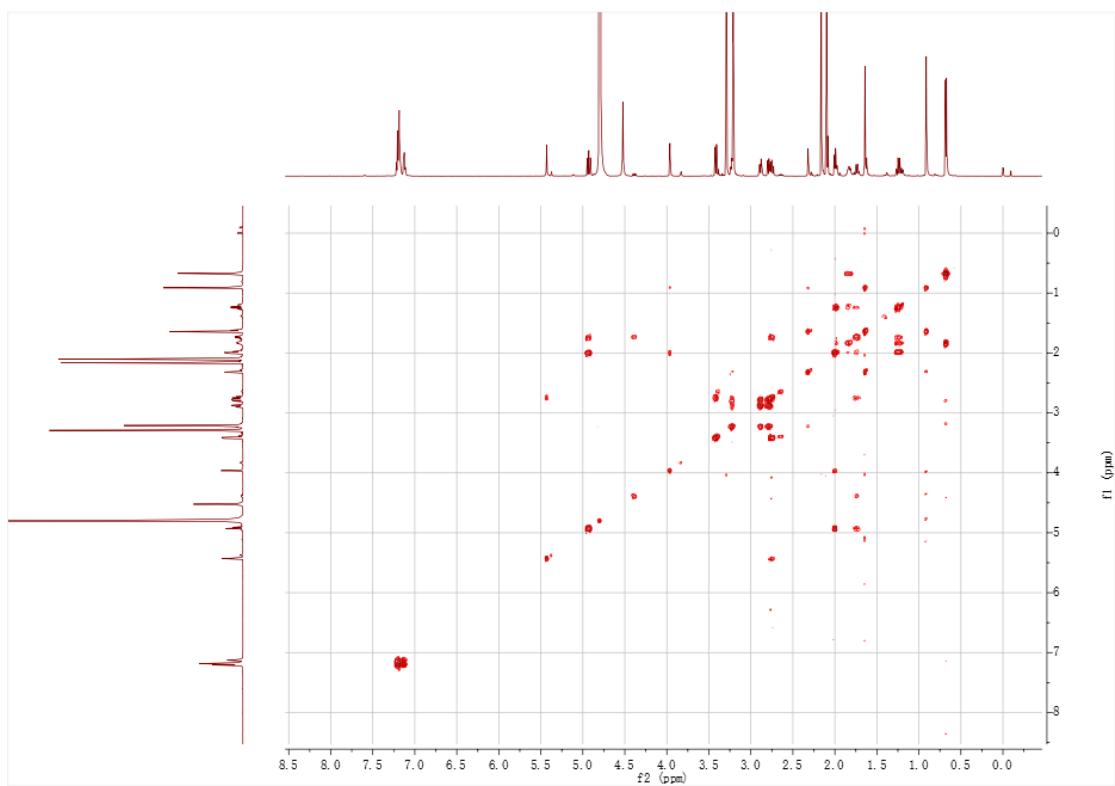


Figure S4.6 Roesy spectrum of **4** in CD<sub>3</sub>OD

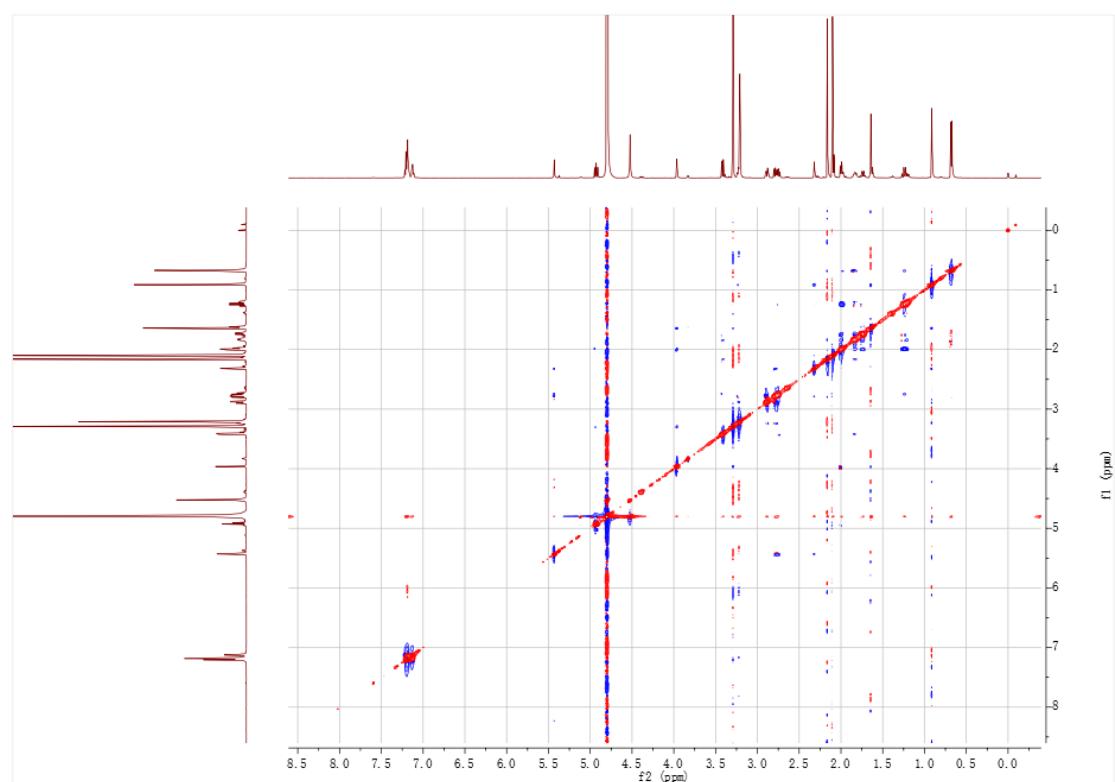


Figure S4.7  $^1\text{H}$  NMR spectrum of **4** in  $\text{DMSO}-d_6$

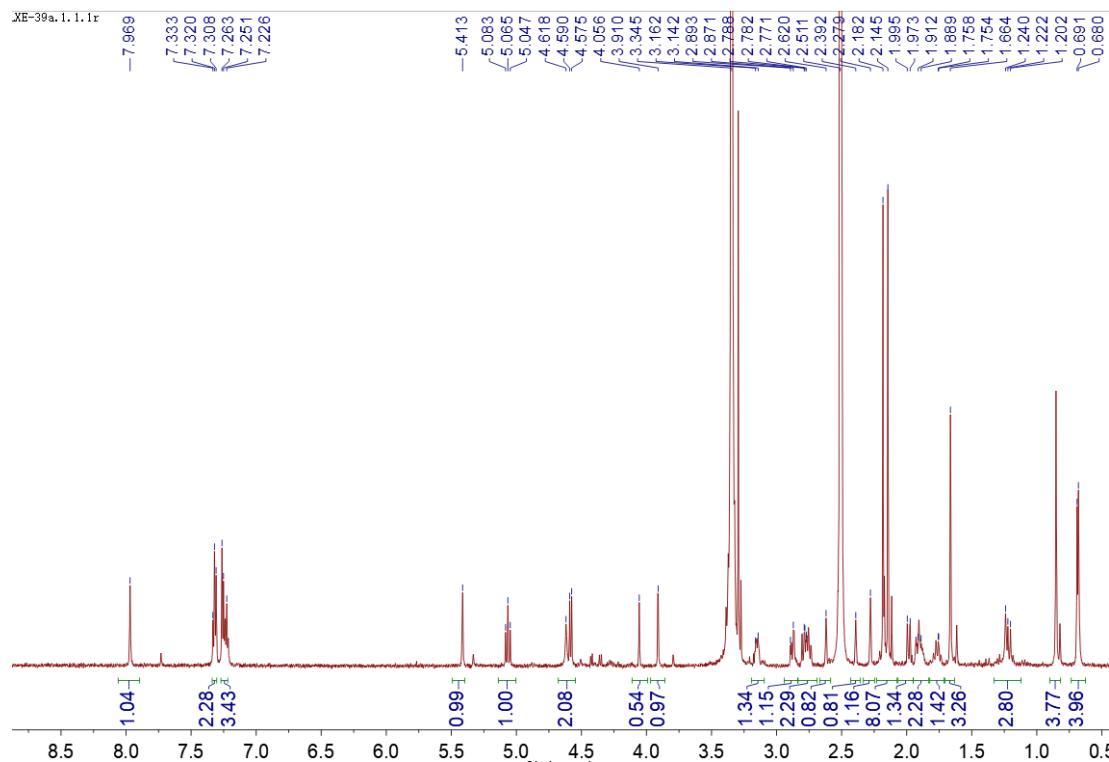


Figure S4.8  $^{13}\text{C}$  NMR spectrum of **4** in  $\text{DMSO}-d_6$

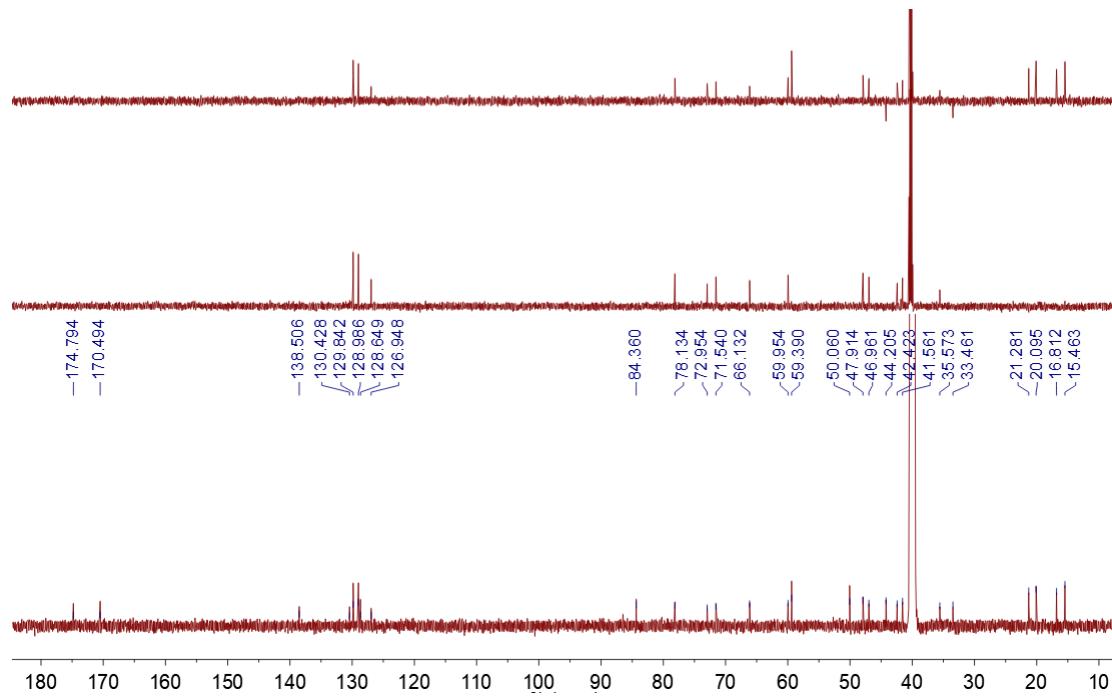


Figure S4.9 HSQC spectrum of **4** in DMSO-*d*<sub>6</sub>

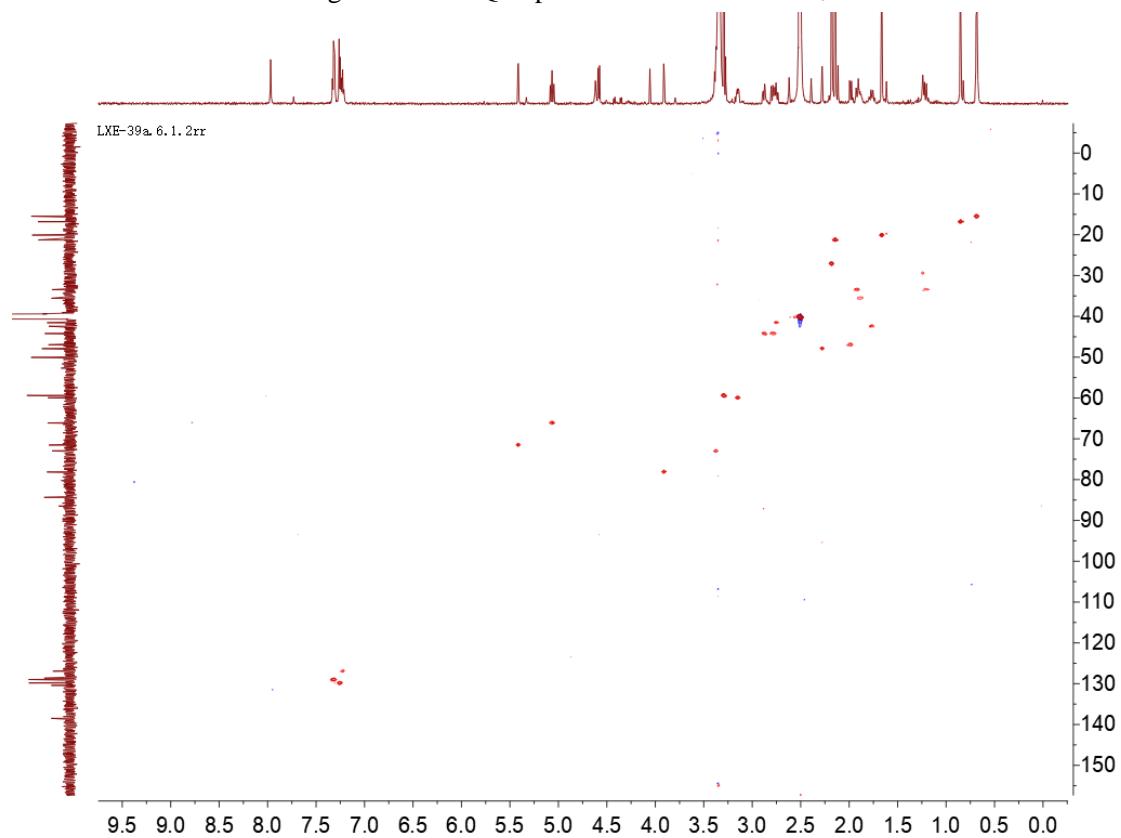


Figure S4.10 HMBC spectrum of **4** in DMSO-*d*<sub>6</sub>

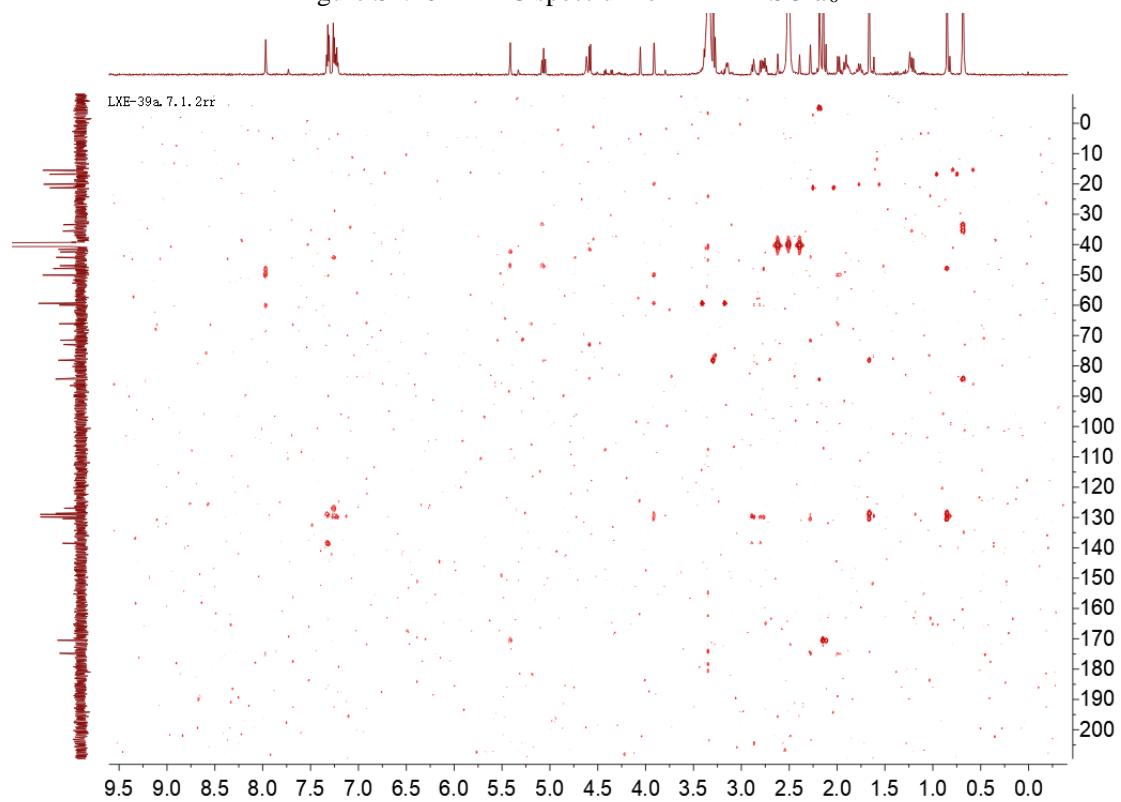


Figure S4.11 COSY spectrum of **4** in  $\text{DMSO}-d_6$

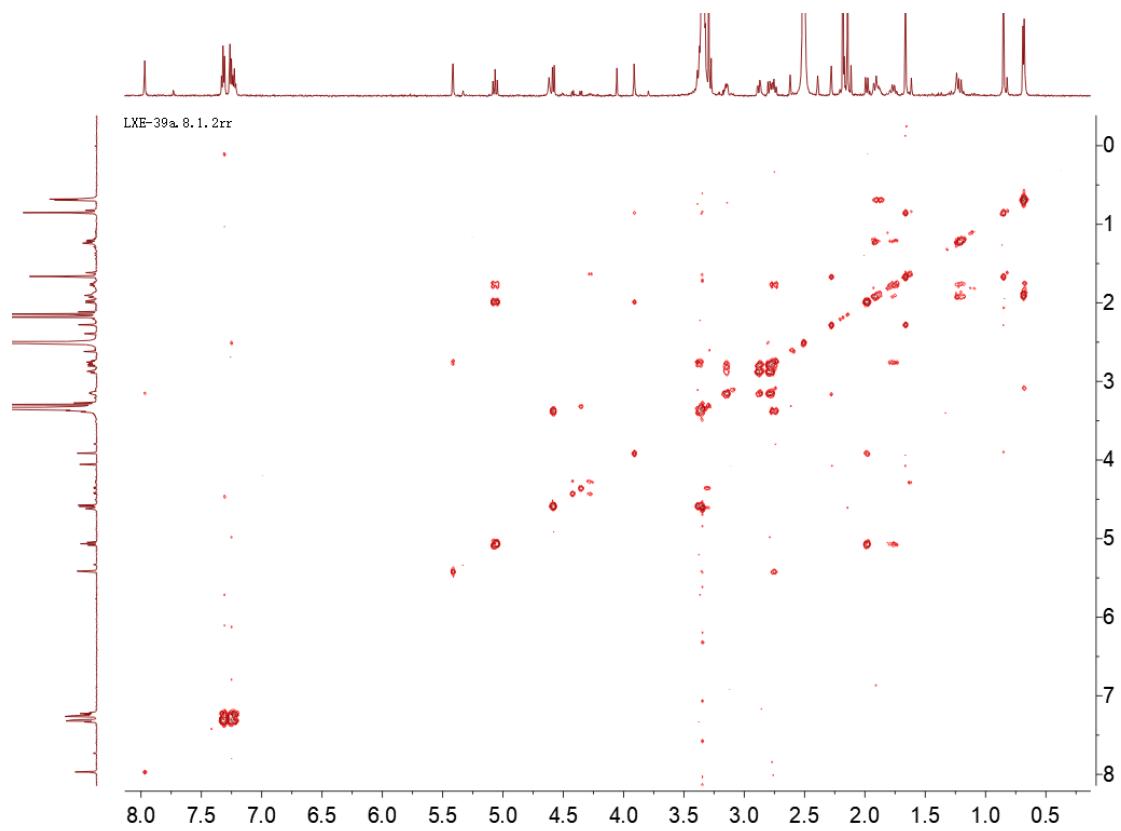


Figure S4.12 Roesy spectrum of **4** in  $\text{DMSO}-d_6$

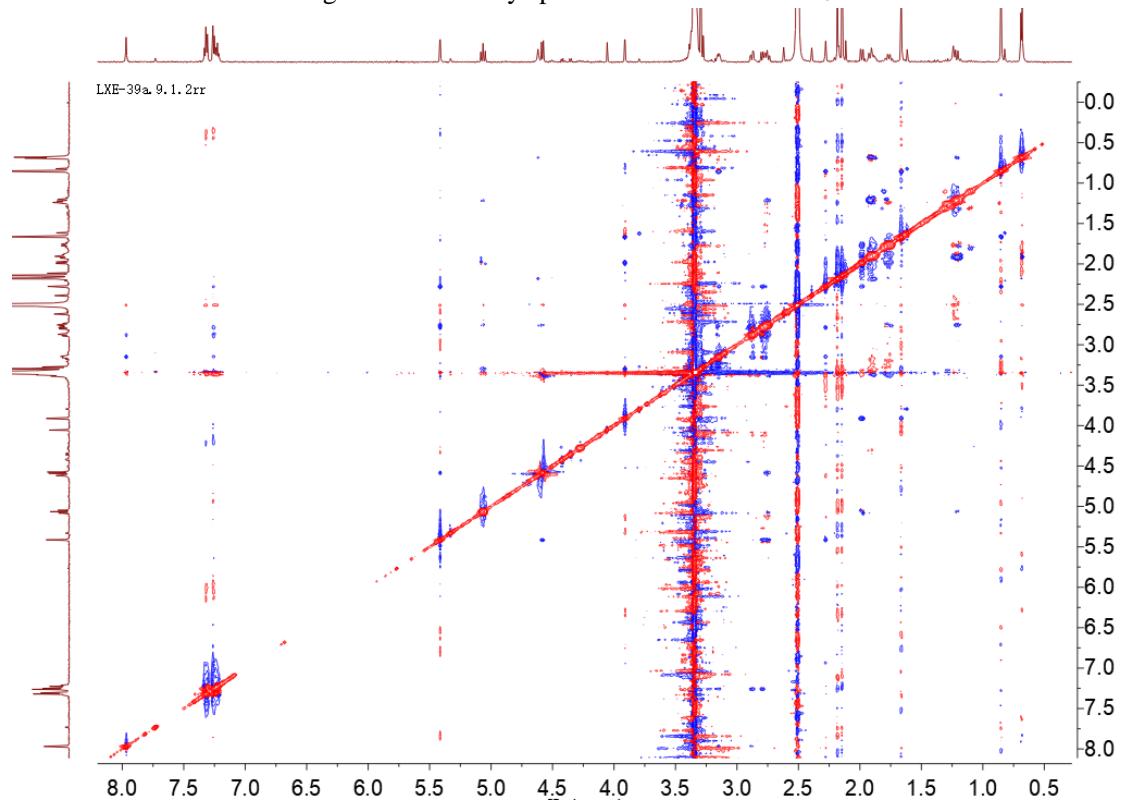


Figure S4.13 HRMS spectrum of **4**

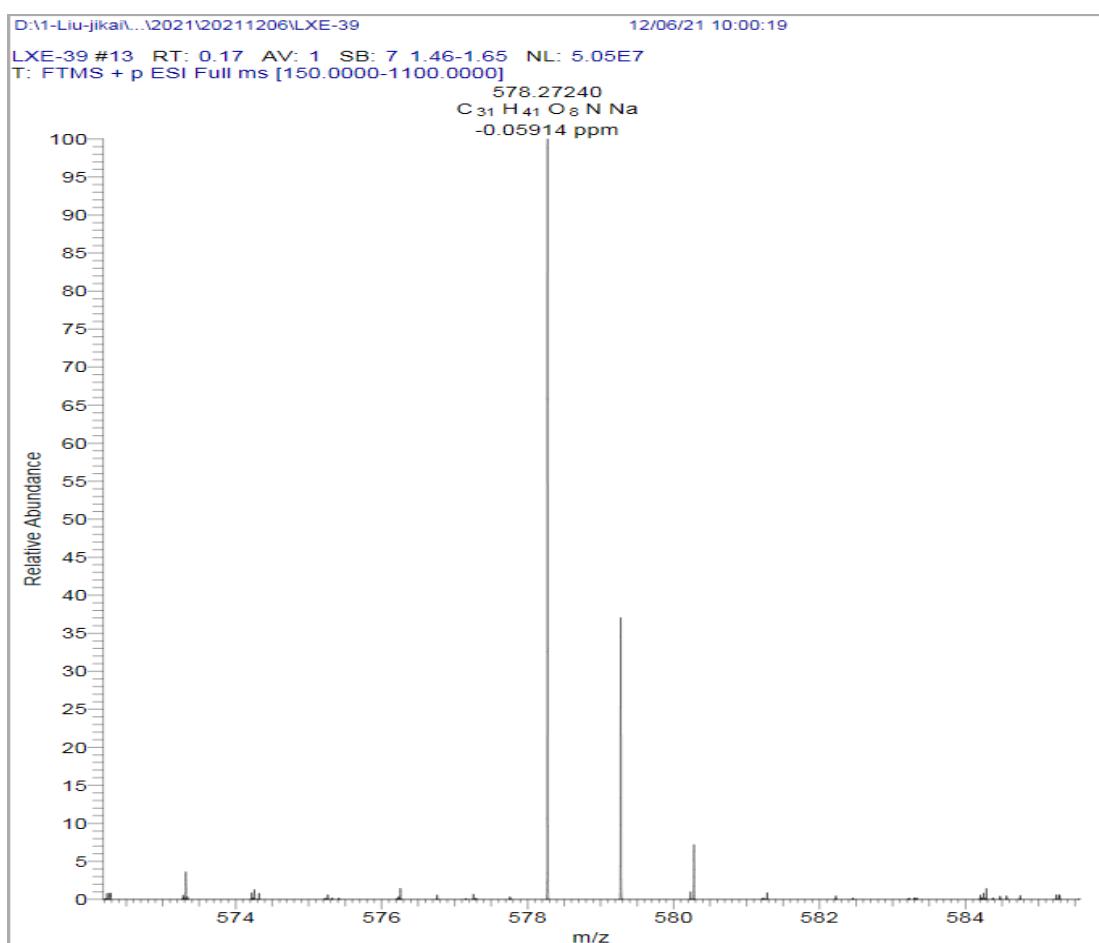


Figure S5.1  $^1\text{H}$  NMR spectrum of **5** in  $\text{CD}_3\text{OD}$

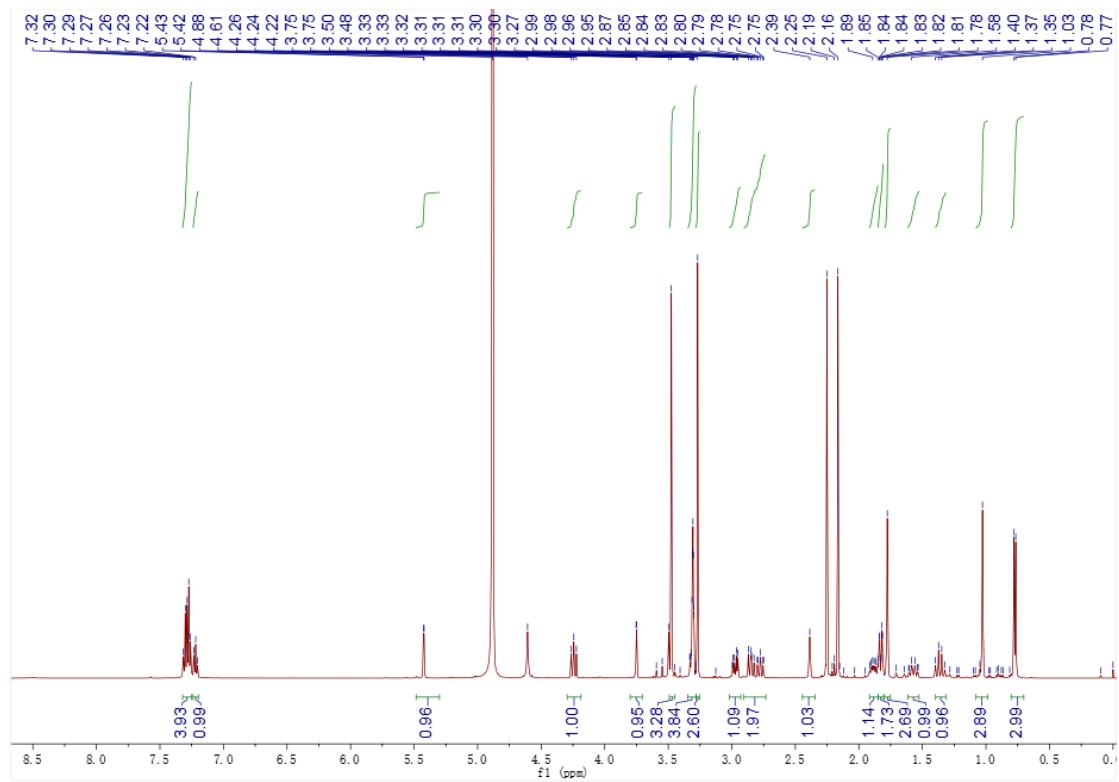


Figure S5.2  $^{13}\text{C}$  NMR spectrum of **5** in  $\text{CD}_3\text{OD}$

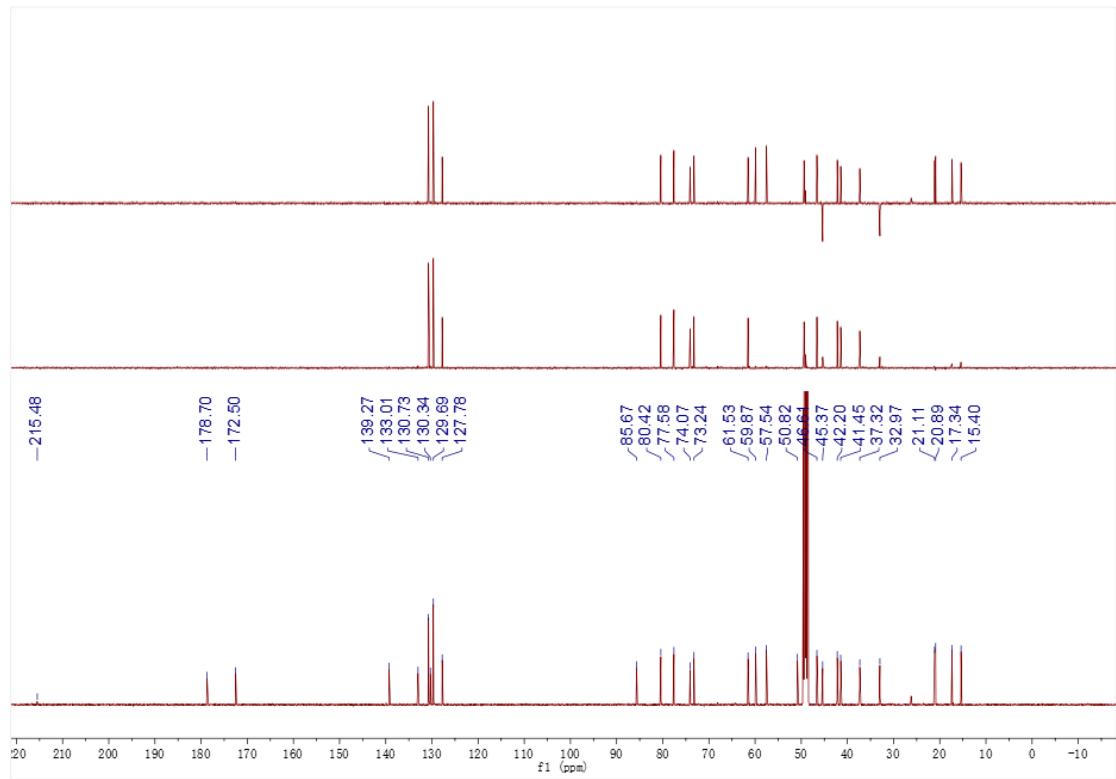


Figure S5.3 HSQC spectrum of **5** in CD<sub>3</sub>OD

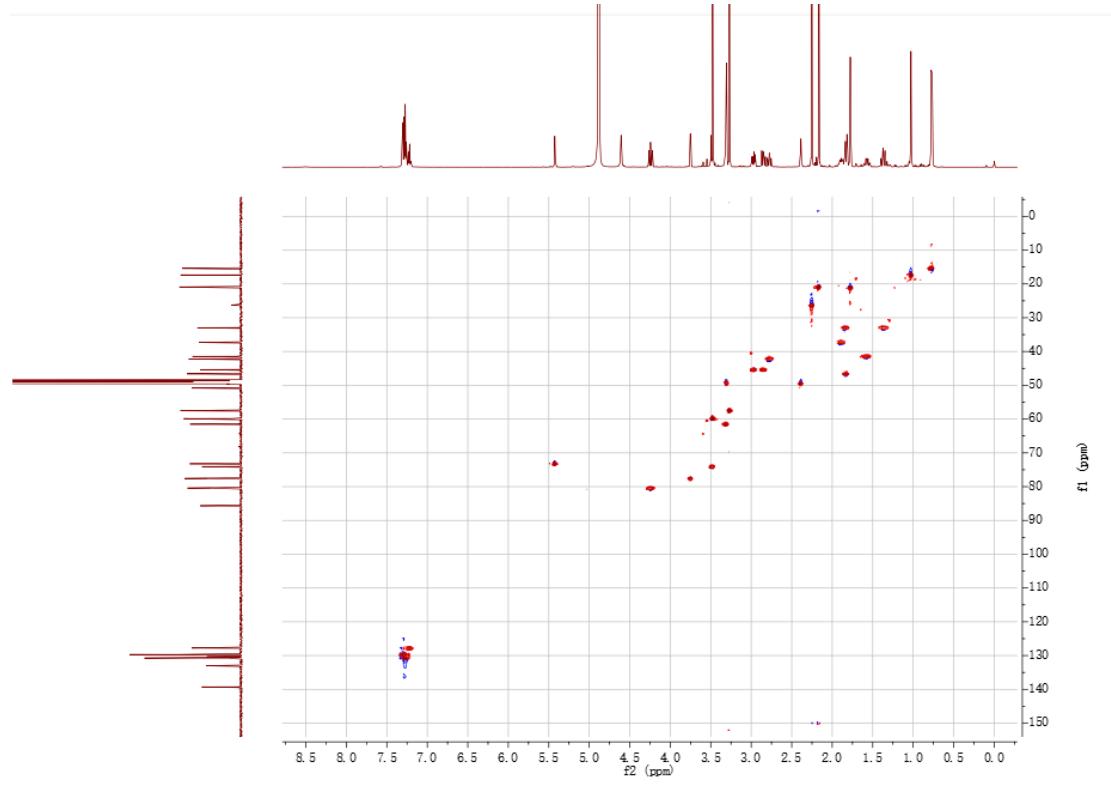


Figure S5.4 HMBC spectrum of **5** in CD<sub>3</sub>OD

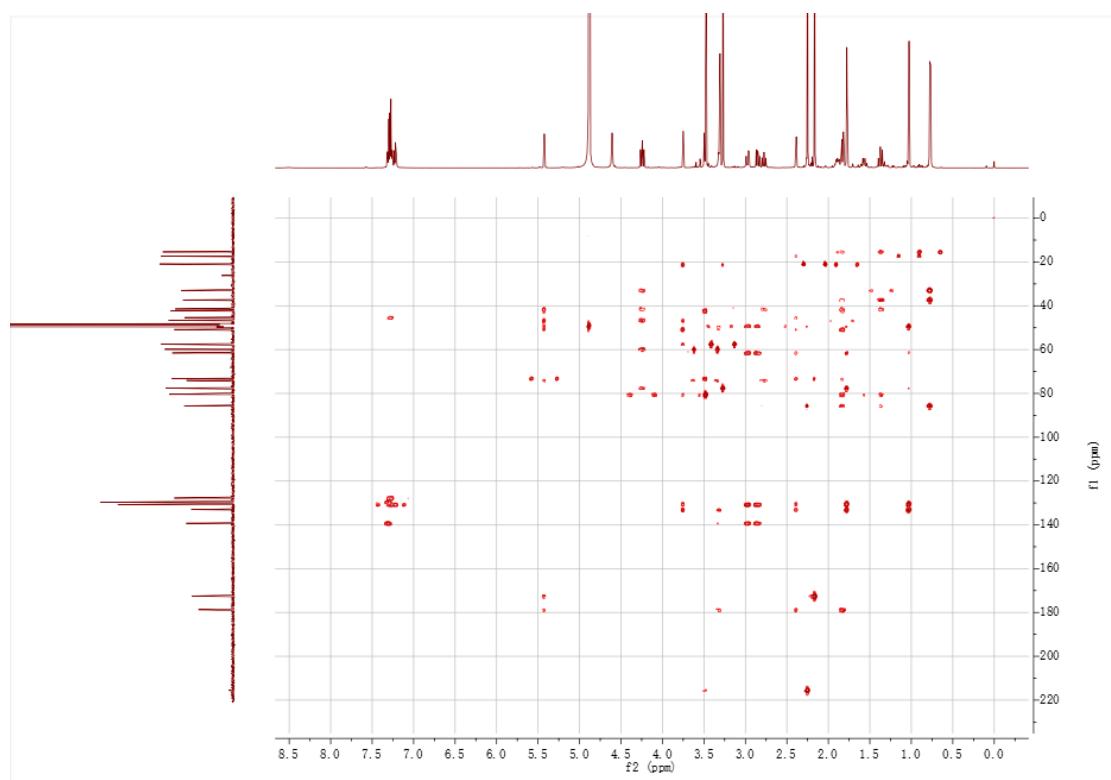


Figure S5.5 COSY spectrum of **5** in CD<sub>3</sub>OD

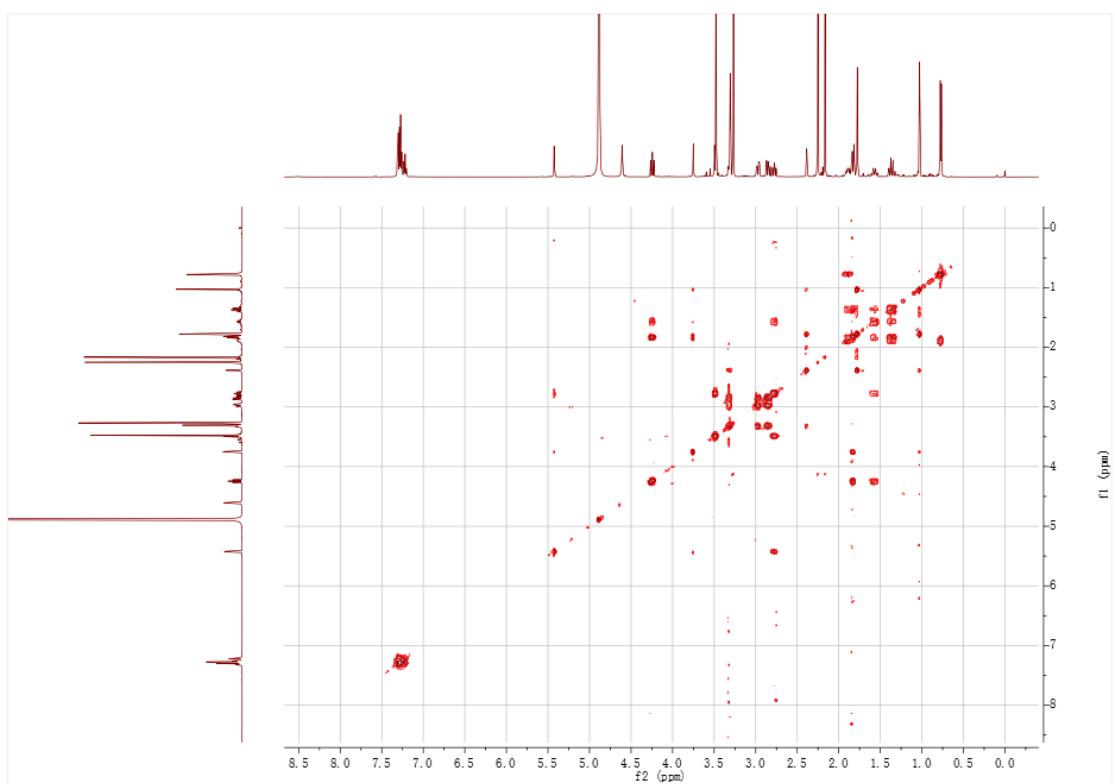


Figure S5.6 Roesy spectrum of **5** in CD<sub>3</sub>OD

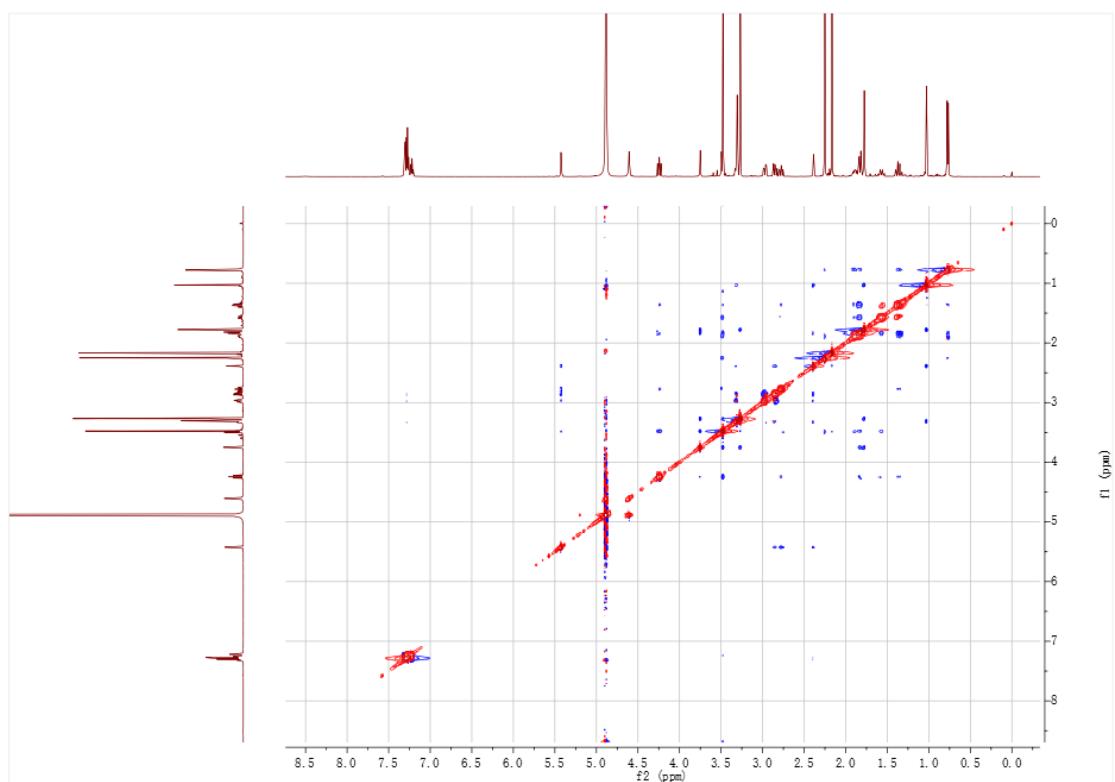


Figure S5.7 HRMS spectrum of **5**

LXE-37 #13 RT: 0.17 AV: 1 SB: 6 1.44-1.59 NL: 9.17E8  
T: FTMS + p ESI Full ms [400.0000-1000.0000]

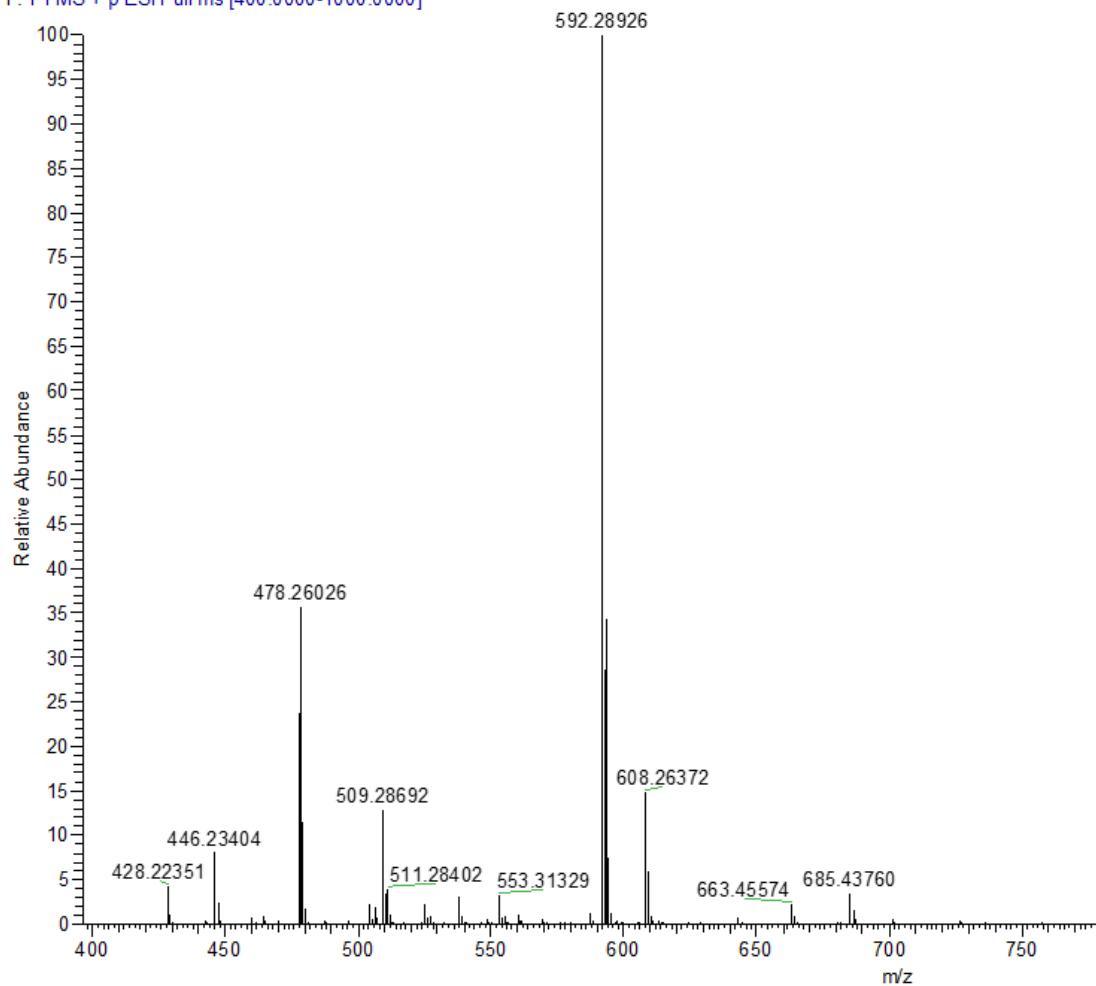


Figure S6.1  $^1\text{H}$  NMR spectrum of **6** in  $\text{DMSO}-d_6$

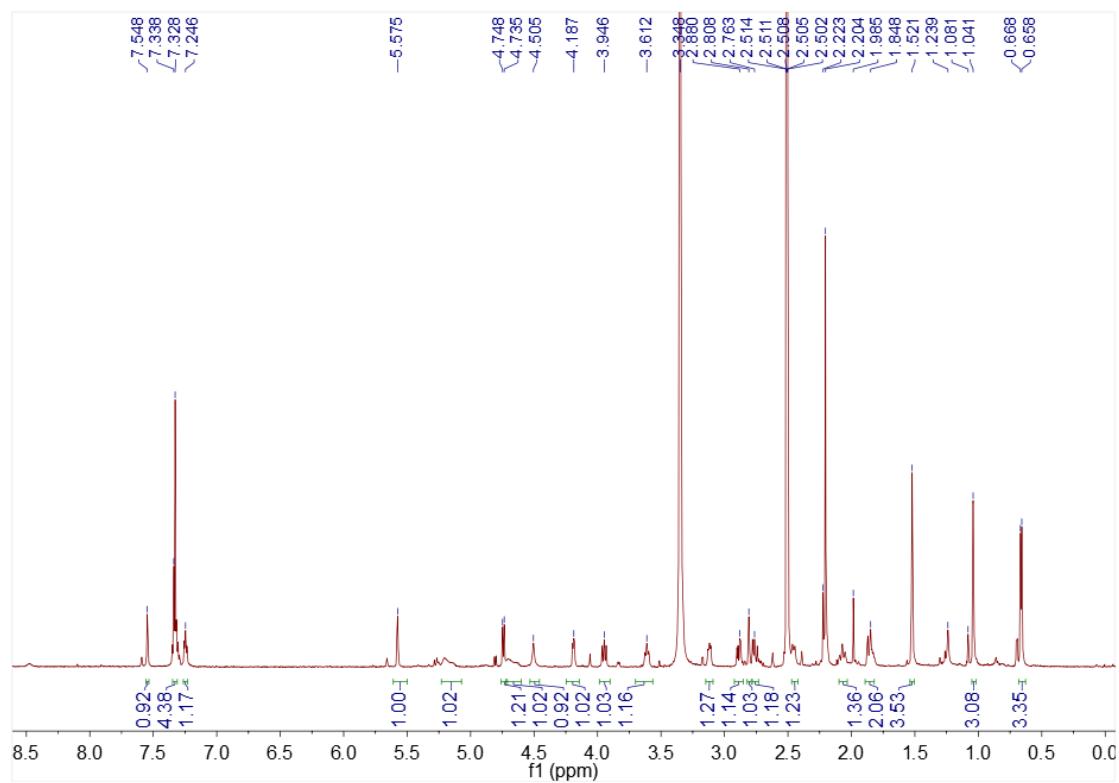


Figure S6.2  $^{13}\text{C}$  NMR spectrum of **6** in  $\text{DMSO}-d_6$

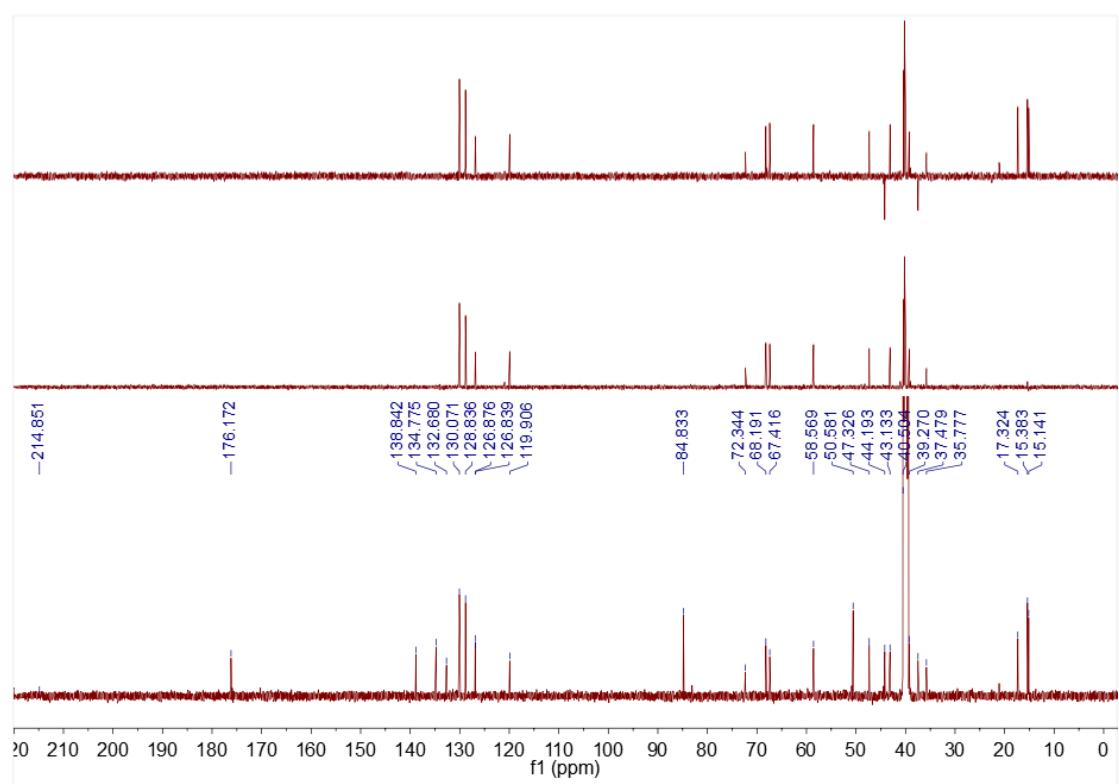


Figure S6.3 HSQC spectrum of **6** in DMSO-*d*<sub>6</sub>

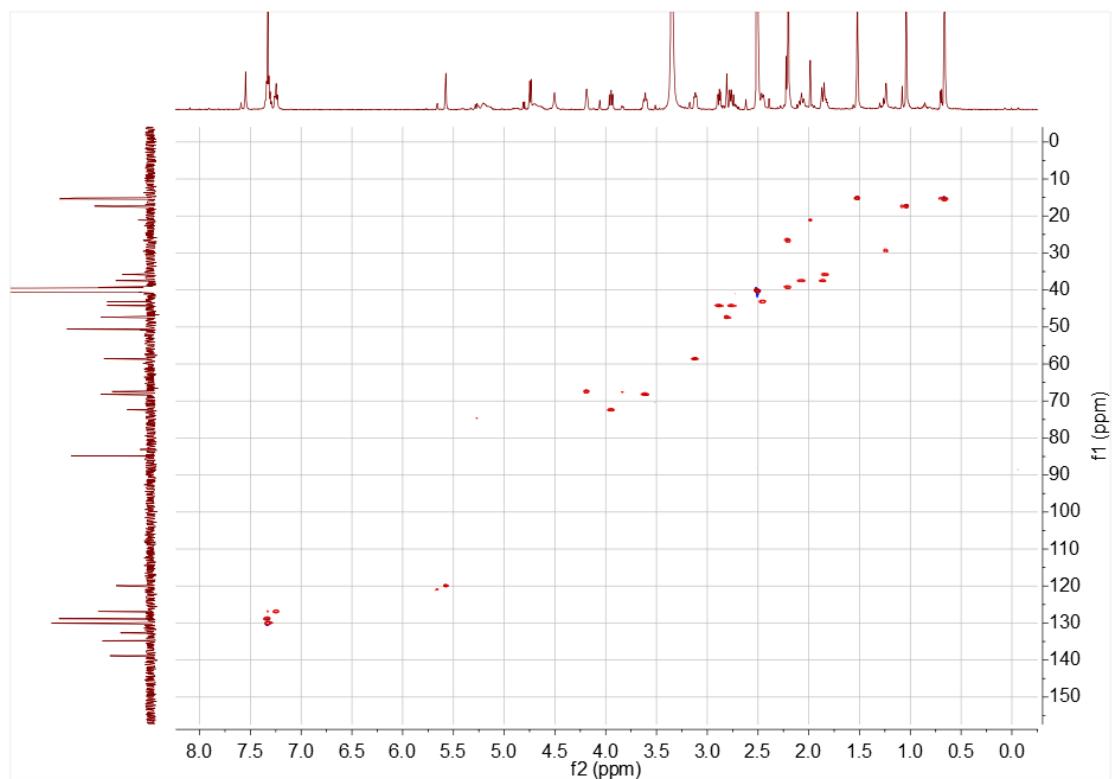


Figure S6.4 HMBC spectrum of **6** in DMSO-*d*<sub>6</sub>

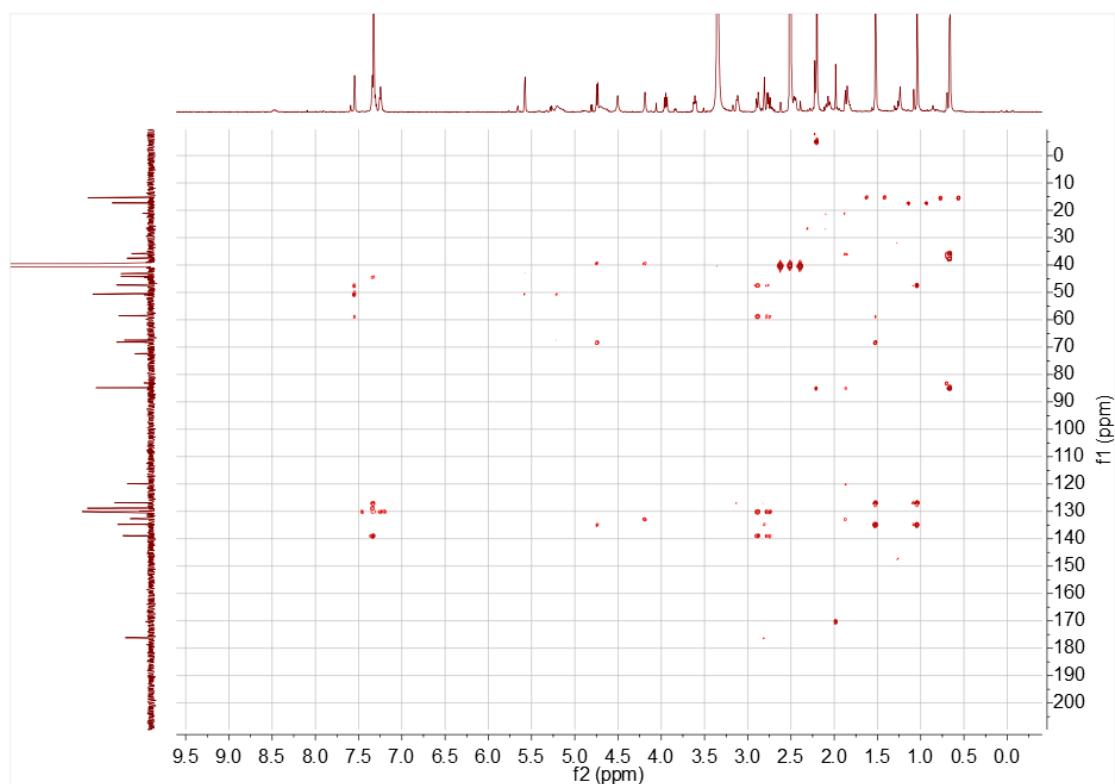


Figure S6.5 COSY spectrum of **6** in DMSO-*d*<sub>6</sub>

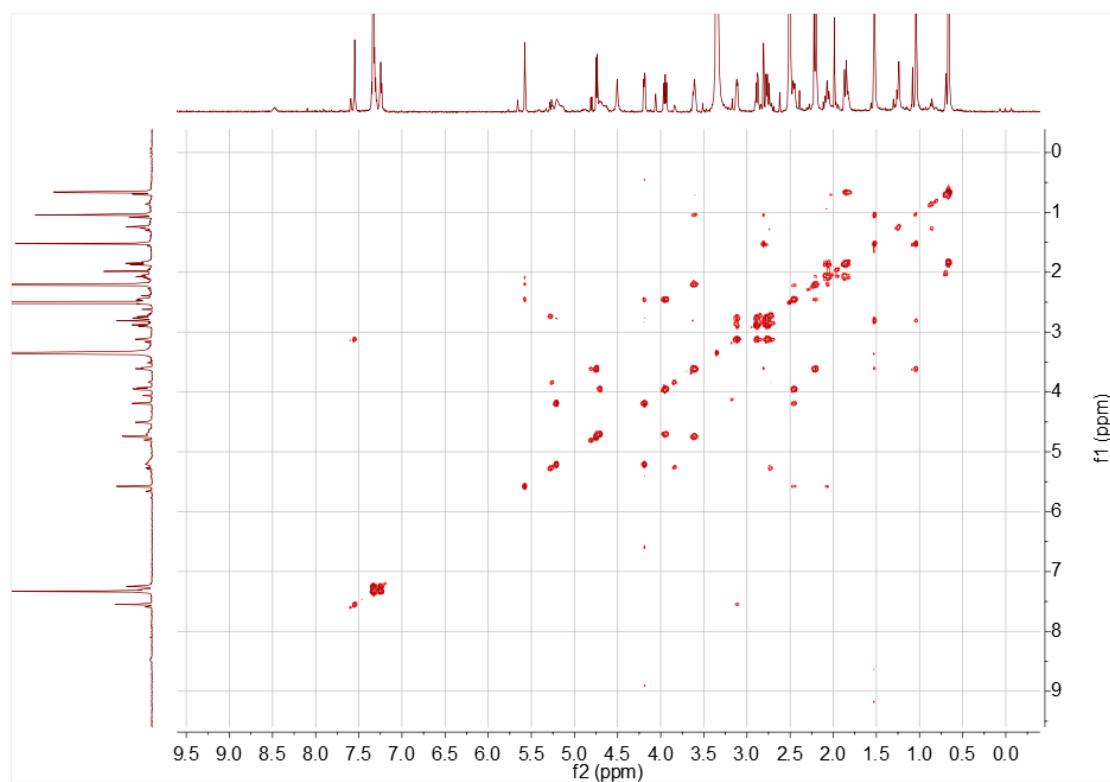


Figure S6.6 Roesy spectrum of **6** in DMSO-*d*<sub>6</sub>

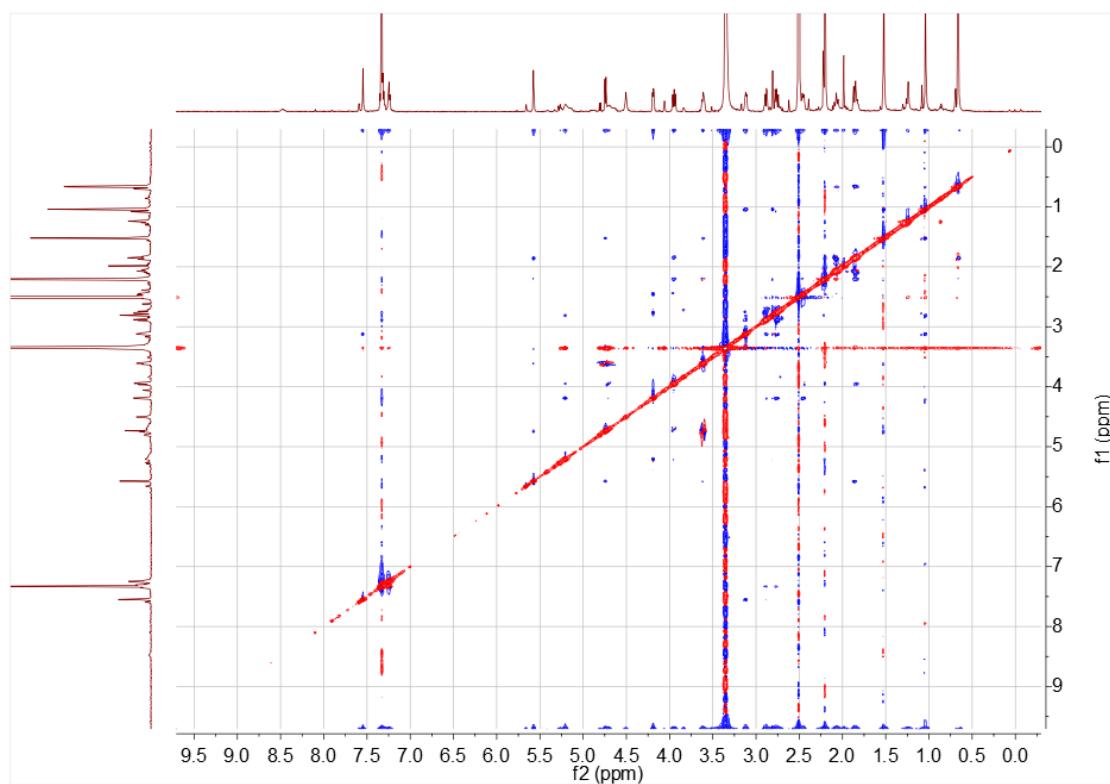
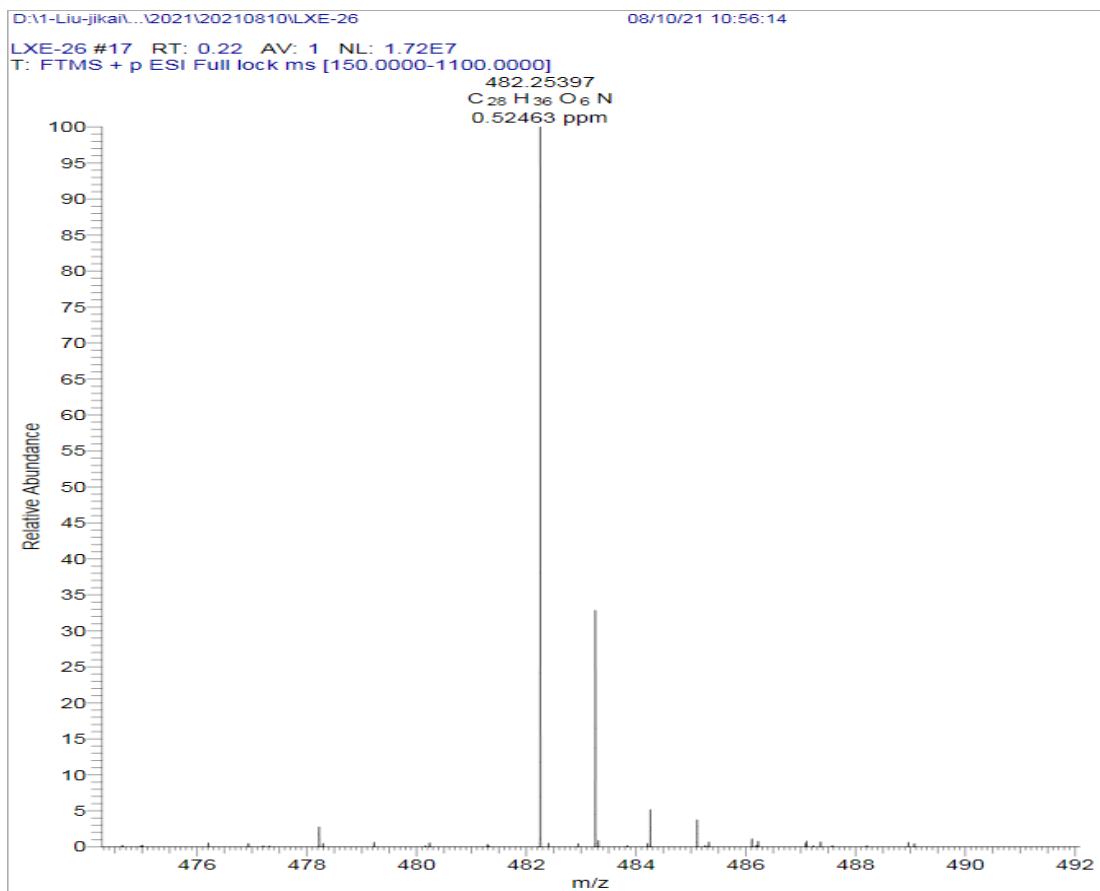


Figure S6.7 HRMS spectrum of **6**



## Quantum chemical calculation

The ECD calculation was carried out using Gaussian 16 software package. Systematic conformational analyses were performed via Spartan 14 using the MMFF94s molecular mechanics force field calculation with 3 kcal/mol of cutoff energy. The optimization and frequency of conformers were calculated on B3LYP-D3(BJ)/6-311G\* level of theory with IEFPCM solvent model (MeOH) by using Gaussian 16. These primary conformations were subjected to theoretical calculations of ECD utilizing time-dependent density functional theory (TDDFT) calculations at the B3LYP-D3(BJ)/6-311G\* level in MeOH. The ECD curves was simulated in SpecDis V1.71 using a Gaussian function. The calculated ECD data of all conformers were Boltzmann averaged by Gibbs free energy.

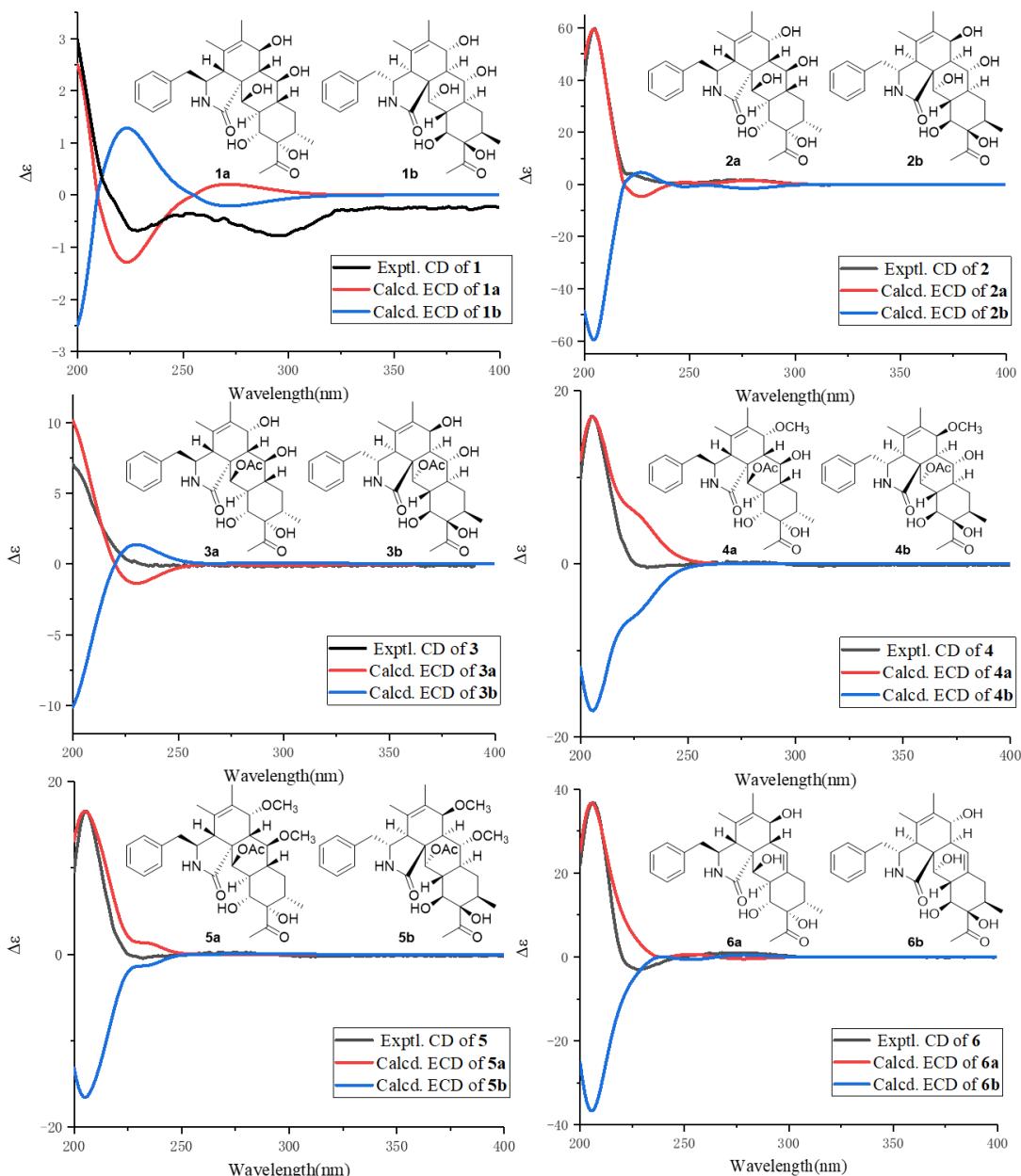


Figure S1. ECD calculations of **1–6**.

Table S1. Cartesian coordinates for the low-energy optimized conformers of **1a** at B3LYP-D3(BJ)/6-311G\* level

conformer <b>1a_1</b>							
C	-1.2284072	2.82156584	1.26878075	C	4.94582393	-2.7152129	-2.6210636
C	1.13852366	1.58881776	0.19096591	H	-1.4374297	0.73516901	1.5967229
C	1.01401138	3.126138	0.18871393	O	0.1082026	-3.2266082	-1.5026308
C	-0.1851098	3.62671256	0.96340921	H	0.97273819	3.51729809	-0.8338385
C	-0.0443751	-0.6169612	-0.2641873	H	-0.9461042	-1.061629	-0.6957561
C	1.15857082	-1.0869475	-1.1156597	H	2.28234224	1.51650798	-1.6718874
C	2.4691868	-0.4133423	-0.690195	H	1.51048088	-2.9404044	-0.0421641
C	2.34426176	1.11901084	-0.6531338	H	4.14041751	-2.6734476	-0.6452087
C	1.33551616	-2.6214314	-1.0752241	H	4.55376937	-0.3758719	-1.3068979
C	2.49154336	-3.1088546	-1.9773635	H	3.41549265	-0.4801096	-2.6431073
C	3.8098486	-2.3721617	-1.6479896	H	-3.2611898	2.16906437	-0.106027
C	3.61522178	-0.8453248	-1.6268953	H	-2.6028669	1.71169722	-2.320302
C	-0.1888877	0.92605931	-0.209836	H	-4.2137834	-0.071357	-0.7778012
C	-1.3639579	1.3892986	0.72154317	H	-2.9102966	-0.8829781	0.0361323
C	-2.625375	1.2802308	-0.187067	H	-2.9794221	-1.2259498	2.43328398
N	-2.0968034	1.32388872	-1.5319727	H	-4.2525323	-1.0668875	4.53921948
C	-0.7217379	1.36627996	-1.5622083	H	-6.2812671	0.35311495	4.67054088
O	-0.0690861	1.66282195	-2.5470846	H	-7.041441	1.61611553	2.67647461
C	-3.5008122	0.03788992	0.05101202	H	-5.7848001	1.46914122	0.55805424
C	-4.2864157	0.11210026	1.33844421	H	-2.6510203	2.40684698	2.83335014
C	-3.8688684	-0.6003709	2.47060441	H	-2.0343343	4.03846244	2.88847258
C	-4.5845078	-0.5119876	3.66541281	H	-3.2127622	3.59660046	1.63816859
C	-5.7239282	0.28649461	3.73979483	H	0.51361939	5.24585276	2.20170664
C	-6.1502188	0.99639188	2.61927569	H	0.26841468	5.67639988	0.49422392
C	-5.4359091	0.91008337	1.42357929	H	-1.1162118	5.51179176	1.54988939
C	-2.3431038	3.24566699	2.20065125	H	2.1456536	3.45170826	1.74211999
C	-0.130626	5.09156933	1.3305998	H	3.44280243	2.57935997	0.0471136
O	2.1967973	3.66565367	0.79169782	H	-0.209793	-2.0566891	1.03964864
H	1.36681357	1.29281589	1.22791289	H	3.12412287	-6.2916545	-0.5868561
O	3.56257531	1.61481064	-0.0854212	H	3.40965465	-4.7128964	0.15765024
O	0.07289704	-1.1228467	1.06861871	H	1.73557092	-5.3157604	-0.0617951
H	2.73573336	-0.7536835	0.32144642	H	2.5227395	-3.5217228	-3.8880361
H	0.93701742	-0.7992883	-2.1528174	H	5.16637895	-3.7869887	-2.6140882
C	2.67755532	-4.6386754	-1.8606538	H	4.70223308	-2.4226181	-3.6476439
O	2.79118208	-5.3254358	-2.8829209	H	5.86593741	-2.1930117	-2.3363326
C	2.73711937	-5.2724949	-0.4952892	H	0.10435778	-3.1384161	-2.4805562
O	2.09825697	-2.8294112	-3.3373231				

conformer <b>1a_2</b>							
C	-0.7225607	3.10906265	1.62281978	C	4.71781208	-3.3164783	-1.9836849
C	1.46199227	1.57629027	0.5431688	H	-1.0811046	1.09437702	2.190211
C	1.4550631	3.10955303	0.37859447	O	-0.0535049	-3.2906144	-0.5200816
C	0.35769527	3.78637589	1.171074	H	1.36613646	3.3924935	-0.6761278

C	0.08605139	-0.5580501	0.42259352	H	-0.8769026	-0.9722931	0.1097389
C	1.1834916	-1.2187434	-0.4443509	H	2.46058821	1.20546305	-1.3674767
C	2.56919546	-0.6146346	-0.1837355	H	1.46407129	-2.9662045	0.81213676
C	2.56472261	0.91795271	-0.3157659	H	4.06104733	-2.9871528	0.01996156
C	1.24377314	-2.748749	-0.2384173	H	4.60021477	-0.8204703	-0.9314197
C	2.29285963	-3.4285706	-1.14695	H	3.36339408	-0.9771887	-2.1715235
C	3.68364975	-2.7729322	-0.9886514	H	-2.8818729	2.49921634	0.45631228
C	3.60799676	-1.2423482	-1.1343198	H	-2.4482089	1.70327037	-1.7273413
C	0.06279219	0.98771949	0.30296418	H	-2.8184749	-0.5549821	0.80692189
C	-1.0048338	1.64565703	1.24514046	H	-3.4543717	0.55633519	1.99511517
C	-2.3297227	1.55258589	0.43398458	H	-5.5073064	1.90751299	1.52352001
N	-1.8965119	1.39504617	-0.9339169	H	-7.6610437	1.94908206	0.31905887
C	-0.5294894	1.31474004	-1.0577747	H	-7.9984597	0.53168485	-1.6874133
O	0.07337391	1.43390519	-2.1094331	H	-6.1676289	-0.9354127	-2.4915773
C	-3.2685493	0.43580065	0.91981565	H	-4.0051869	-0.9907735	-1.3026174
C	-4.5988985	0.45042379	0.20169081	H	-2.1506017	2.97143896	3.23304796
C	-5.6385334	1.27880884	0.64588376	H	-1.3046537	4.50183139	3.19051394
C	-6.8579942	1.30631225	-0.0323259	H	-2.5700472	4.16568165	1.98801926
C	-7.0482787	0.5100424	-1.1601354	H	1.28317173	5.4585753	2.16624833
C	-6.0197378	-0.3146328	-1.6115611	H	0.91081021	5.73560453	0.44975187
C	-4.799697	-0.3443901	-0.9351023	H	-0.3762258	5.78994972	1.63447512
C	-1.7423854	3.72730222	2.553233	H	2.72654135	3.49271705	1.80591838
C	0.55091569	5.27132902	1.37473022	H	3.82048475	2.34918105	0.13552143
O	2.71668786	3.60995872	0.83759749	H	-0.0948694	-1.8151961	1.90258782
H	1.74039451	1.37462648	1.59049661	H	3.23430463	-4.8548554	1.1004274
O	3.85465217	1.36911842	0.114277	H	1.50850419	-5.3383652	1.05582375
O	0.26743156	-0.9149486	1.79592795	H	2.77977393	-6.4778299	0.56412659
H	2.88155327	-0.8626841	0.84156276	H	2.157786	-4.0525295	-2.9948939
H	0.90966006	-1.0298775	-1.4916011	H	4.42468353	-3.1206515	-3.0202857
C	2.36968016	-4.9460227	-0.8640523	H	5.69306208	-2.8449446	-1.8196101
O	2.35785028	-5.749598	-1.8041122	H	4.85586351	-4.3955134	-1.8652876
C	2.4775239	-5.4264188	0.55969854	H	-0.1157521	-3.3121982	-1.4997967
O	1.82615189	-3.2707716	-2.5033485				
conformer <b>1a_3</b>							
C	-0.8226621	3.02739988	1.19882688	C	3.89567862	-3.1950311	-3.6023851
C	1.08657725	1.59529494	-0.4238379	H	-0.8502283	1.01905304	1.87632022
C	0.95858701	3.12633344	-0.5743055	O	-0.3222226	-3.388296	-0.9428932
C	0.05128144	3.75216669	0.46336189	H	0.59745259	3.39225085	-1.5744571
C	-0.1258852	-0.6199884	-0.1279337	H	-1.1083495	-1.0999014	-0.1706754
C	0.74350313	-1.2428121	-1.2476686	H	1.44657505	1.19504954	-2.5416298
C	2.10120599	-0.5366831	-1.3925995	H	1.46918391	-2.9199529	-0.0751938
C	1.91532751	0.98075384	-1.5757261	H	3.74739384	-2.8157173	-1.5070085
C	0.96161252	-2.7573972	-1.0320533	H	3.88481791	-0.6724407	-2.6268568
C	1.77528117	-3.4073233	-2.1721533	H	2.38530162	-0.9465221	-3.5051076
C	3.1137114	-2.6678629	-2.3914855	H	-3.1784752	2.23048024	0.69654266
C	2.90091251	-1.1515979	-2.557653	H	-3.2852673	1.45082146	-1.5185461

C	-0.2835966	0.91969357	-0.2508051	H	-4.2284354	-0.0726176	0.70275784
C	-1.091536	1.53752363	0.94237501	H	-2.7051928	-0.7726571	1.16097297
C	-2.5807627	1.32621746	0.53562941	H	-1.9702173	-0.7271165	3.47310552
N	-2.5352789	1.16269875	-0.9003952	H	-2.4997039	-0.2284426	5.82904444
C	-1.2511217	1.17231913	-1.3945794	H	-4.4367046	1.21130116	6.39845827
O	-0.9761784	1.30067333	-2.5748812	H	-5.8542468	2.15242777	4.5944984
C	-3.2896825	0.14971487	1.22864919	H	-5.3445866	1.66416866	2.23015796
C	-3.6189343	0.43143633	2.67507106	H	-1.654663	2.87560302	3.18124563
C	-2.827332	-0.0977646	3.70314508	H	-1.0722519	4.4771852	2.80893691
C	-3.1213679	0.18331948	5.03809961	H	-2.5876694	3.9120322	2.0794056
C	-4.2089813	0.99318641	5.35834247	H	1.08710216	5.49424999	1.19769518
C	-5.0046688	1.52221815	4.34435265	H	0.31367356	5.71069619	-0.389184
C	-4.7121324	1.2432266	3.00870041	H	-0.6677	5.72589823	1.0570318
C	-1.5783707	3.61055811	2.37335677	H	2.89487533	3.10826223	-0.8086245
C	0.20402712	5.24989342	0.59905875	H	3.58985012	1.44799586	-2.4790856
O	2.24666352	3.72876338	-0.4140775	H	0.14558339	-1.8396354	1.3698364
H	1.67058923	1.42425892	0.49524045	H	2.86901707	-6.3749472	-0.6022259
O	3.20393288	1.60944568	-1.5982432	H	3.36118474	-4.7162358	-0.2340378
O	0.43857833	-0.9355621	1.14759005	H	1.71358561	-5.2823466	0.1896292
H	2.69271698	-0.6974484	-0.4795046	H	1.17434495	-4.1150861	-3.8929561
H	0.18248369	-1.1124316	-2.1837513	H	3.33494823	-3.0665293	-4.5339969
C	2.01515606	-4.9087153	-1.8963474	H	4.84523198	-2.6590518	-3.7093297
O	1.80692523	-5.7376026	-2.7902302	H	4.13447176	-4.2570785	-3.4907468
C	2.52036029	-5.3396214	-0.5443151	H	-0.6538149	-3.4386009	-1.8652851
O	0.96851489	-3.313554	-3.3646661				

#### conformer 1a\_4

C	-0.5306435	3.17912163	1.62964555	C	4.40464227	-3.2957702	-2.581849
C	1.47808309	1.65271817	0.22628937	H	-0.7202142	1.18330669	2.3207528
C	1.42791162	3.18528738	0.05090272	O	-0.0662891	-3.2814922	-0.3672372
C	0.44604716	3.85880056	0.98656287	H	1.18039316	3.45262537	-0.9828984
C	0.15892335	-0.5088881	0.43057161	H	-0.8321192	-0.9548155	0.30384342
C	1.10941292	-1.1843267	-0.5880005	H	2.03464163	1.20413972	-1.8388695
C	2.50141445	-0.5317517	-0.6061532	H	1.64284605	-2.8664553	0.67674932
C	2.39448828	0.98865429	-0.8276593	H	4.06060937	-2.8705947	-0.5185256
C	1.24423899	-2.7017666	-0.3299921	H	4.39229055	-0.7559742	-1.653438
C	2.14431246	-3.4025682	-1.3708508	H	2.97813429	-0.9919113	-2.6730482
C	3.52540588	-2.7169008	-1.4649136	H	-2.8412412	2.47944385	0.88892133
C	3.38874814	-1.197372	-1.6756866	H	-2.7811986	1.61130674	-1.3044812
C	0.07202675	1.03237305	0.26518451	H	-2.6247436	-0.5545408	1.33809937
C	-0.8295707	1.69947041	1.35922199	H	-3.0765943	0.59232699	2.57556631
C	-2.2744376	1.54518015	0.80265759	H	-5.2170026	1.88459377	2.41114653
N	-2.0889427	1.34097077	-0.6143765	H	-7.5496117	1.82193433	1.60737781
C	-0.7636172	1.29343669	-0.977551	H	-8.1946702	0.2980187	-0.2394655
O	-0.363834	1.37959859	-2.1254428	H	-6.4927971	-1.1708816	-1.2869299
C	-3.078856	0.42924706	1.48986136	H	-4.1537344	-1.1221982	-0.4990884
C	-4.5145803	0.38057859	1.01845587	H	-1.6761716	3.07163668	3.45428554

C	-5. 4830783	1. 20938868	1. 60105232	H	-0. 8659135	4. 60624288	3. 23851506
C	-6. 8031941	1. 1780518	1. 14934119	H	-2. 3060196	4. 2300554	2. 26569303
C	-7. 1662432	0. 32195011	0. 11132287	H	1. 48553383	5. 5656341	1. 79483514
C	-6. 2100115	-0. 5036751	-0. 4767305	H	0. 85125296	5. 79917553	0. 1494971
C	-4. 8894957	-0. 4745542	-0. 0267634	H	-0. 2405886	5. 86330978	1. 51454272
C	-1. 3923083	3. 81277988	2. 69907931	H	3. 37532875	3. 09007557	0. 01018679
C	0. 64478364	5. 35070709	1. 12780714	H	4. 16909832	1. 37586504	-1. 5614468
O	2. 71625111	3. 73821458	0. 33664608	H	0. 23300459	-1. 6967469	1. 97714279
H	1. 95835775	1. 47216752	1. 20192997	H	3. 47349405	-4. 7293751	0. 73968808
O	3. 70220821	1. 56837337	-0. 727248	H	1. 77163896	-5. 2294174	1. 00086046
O	0. 58823006	-0. 8137971	1. 7602969	H	2. 96087272	-6. 3765246	0. 34828872
H	2. 99219016	-0. 6982503	0. 36386273	H	1. 6952109	-4. 1207589	-3. 1332601
H	0. 64988242	-1. 0505613	-1. 5773317	H	3. 9461093	-3. 1648063	-3. 5674585
C	2. 2975663	-4. 9060671	-1. 0486463	H	5. 38005824	-2. 7971786	-2. 6001611
O	2. 14950781	-5. 7440699	-1. 9460206	H	4. 58993552	-4. 3635031	-2. 4300631
C	2. 64633381	-5. 328746	0. 35441765	H	-0. 2999562	-3. 337561	-1. 3188681
O	1. 46625902	-3. 3029606	-2. 6406466				
conformer <b>1a_5</b>							
C	-0. 4987198	3. 21259912	0. 79523314	C	3. 68742713	-4. 0208226	-2. 9493119
C	1. 31768556	1. 38945925	-0. 4867078	H	-0. 8528317	1. 31152006	1. 66781813
C	1. 38473592	2. 89040392	-0. 8383925	O	-0. 7039861	-3. 4120387	-0. 6542098
C	0. 51016277	3. 73751735	0. 06163183	H	1. 10473637	3. 07041422	-1. 8827413
C	-0. 187241	-0. 6198924	-0. 074126	H	-1. 2186069	-0. 9797667	-0. 134945
C	0. 66430679	-1. 4633518	-1. 0528402	H	1. 84889012	0. 71068652	-2. 4896303
C	2. 1125829	-0. 9609273	-1. 131244	H	1. 06198863	-3. 0931409	0. 3249169
C	2. 16836463	0. 54153646	-1. 4562063	H	3. 44279102	-3. 4265293	-0. 9139913
C	0. 65682464	-2. 9639597	-0. 6844143	H	3. 94511539	-1. 4266535	-2. 1992581
C	1. 46016364	-3. 8233507	-1. 6865735	H	2. 48935789	-1. 600812	-3. 170527
C	2. 8993963	-3. 2845772	-1. 8575239	H	-2. 8918679	2. 66712798	0. 15274748
C	2. 90569784	-1. 7766478	-2. 169723	H	-2. 9312904	1. 64401905	-1. 9655578
C	-0. 1363837	0. 90213733	-0. 3738228	H	-4. 2501303	0. 54052703	0. 31150121
C	-0. 9471214	1. 74818852	0. 66782725	H	-2. 8776372	-0. 2978893	0. 97008827
C	-2. 4139516	1. 68091651	0. 14703726	H	-2. 3341961	-0. 1073619	3. 32366806
N	-2. 2777312	1. 34192735	-1. 2517439	H	-2. 9589303	0. 72075516	5. 56067914
C	-0. 9693007	1. 13429276	-1. 6225919	H	-4. 6918966	2. 47727526	5. 8054908
O	-0. 5864004	1. 09037337	-2. 7783212	H	-5. 8092035	3. 40488717	3. 79546446
C	-3. 3303027	0. 69517642	0. 89223798	H	-5. 2020596	2. 58900698	1. 54752926
C	-3. 7213245	1. 18018316	2. 26761752	H	-1. 4688087	3. 38480691	2. 71181426
C	-3. 0997617	0. 66054714	3. 41098763	H	-0. 6670003	4. 85437012	2. 22138664
C	-3. 4481742	1. 12727721	4. 67921549	H	-2. 1911055	4. 39300813	1. 43888373
C	-4. 4212242	2. 11494193	4. 81717207	H	1. 72579062	5. 40275929	0. 68896585
C	-5. 048228	2. 63622637	3. 68746613	H	1. 07988867	5. 54213491	-0. 962266
C	-4. 7010669	2. 17156194	2. 41825387	H	0. 02886707	5. 83936088	0. 40222491
C	-1. 2487326	4. 00991643	1. 84029118	H	3. 28170159	2. 76942662	-1. 2411946
C	0. 85340161	5. 20927604	0. 05699416	H	3. 85827855	0. 78567007	-0. 4855635
O	2. 72993788	3. 34540227	-0. 6724537	H	-0. 1666929	-1. 672617	1. 56702593

H	1. 79077857	1. 28136782	0. 50297568	H	2. 70329928	-5. 1104928	0. 49841181
O	3. 53553142	0. 9718693	-1. 3878507	H	0. 96842734	-5. 4283869	0. 82045444
O	0. 26228718	-0. 8493507	1. 26480887	H	2. 03266327	-6. 7266411	0. 23913752
H	2. 60134979	-1. 1178251	-0. 158609	H	0. 92007359	-4. 6109867	-3. 3931177
H	0. 20062656	-1. 3573396	-2. 0433163	H	3. 21786974	-3. 9104192	-3. 9322358
C	1. 47845571	-5. 3071297	-1. 2548652	H	4. 70610175	-3. 6239638	-3. 0212509
O	1. 23368791	-6. 1921305	-2. 0831385	H	3. 77116869	-5. 0892641	-2. 7283667
C	1. 81637904	-5. 6564086	0. 17095782	H	-0. 9640932	-3. 5175044	-1. 5950841
O	0. 75920803	-3. 7526724	-2. 9452002				
conformer 1a_6							
C	-0. 9651817	3. 20739242	1. 32007921	C	4. 96380929	-3. 1981021	-1. 4504897
C	1. 34320274	1. 71532545	0. 47261764	H	-1. 2515864	1. 23125838	2. 03921321
C	1. 27683893	3. 22901823	0. 18221571	O	0. 11680239	-3. 2966655	-0. 2618909
C	0. 10500476	3. 90084994	0. 86745636	H	1. 22492397	3. 42846256	-0. 8943851
C	0. 08567447	-0. 4940664	0. 48094329	H	-0. 8429016	-0. 9864923	0. 17768241
C	1. 25081025	-1. 166078	-0. 2838294	H	2. 41796417	1. 21907209	-1. 35885
C	2. 59164338	-0. 4712318	-0. 0079322	H	1. 53873473	-2. 7967079	1. 11981643
C	2. 50819148	1. 04044446	-0. 2825244	H	4. 16955032	-2. 7433992	0. 47769911
C	1. 3691842	-2. 6709798	0. 04512584	H	4. 66882987	-0. 6331141	-0. 6195417
C	2. 49864114	-3. 3637635	-0. 7504618	H	3. 51801299	-0. 9524586	-1. 9105621
C	3. 84661447	-2. 629068	-0. 565529	H	-3. 0278575	2. 39587737	0. 10864152
C	3. 71145285	-1. 1203059	-0. 8427411	H	-2. 4528102	1. 43576281	-1. 9706206
C	-0. 0122888	1. 03343268	0. 2241368	H	-2. 8422568	-0. 6080593	0. 73874954
C	-1. 1563592	1. 70758571	1. 05576753	H	-3. 5884579	0. 57094113	1. 7898789
C	-2. 433562	1. 47898525	0. 19722299	H	-5. 6709943	1. 77734482	1. 09560519
N	-1. 9275892	1. 22114147	-1. 1298203	H	-7. 7618898	1. 6013674	-0. 2035821
C	-0. 5539448	1. 20940575	-1. 1848785	H	-7. 937028	-0. 0135248	-2. 0772039
O	0. 09244213	1. 26661679	-2. 2158334	H	-6. 0061138	-1. 4597785	-2. 6524665
C	-3. 3435442	0. 36455444	0. 73975535	H	-3. 9050375	-1. 2984202	-1. 3669076
C	-4. 6355019	0. 24714309	-0. 0365314	H	-2. 4649365	3. 12203996	2. 86776165
C	-5. 7311145	1. 06266101	0. 27798687	H	-1. 6833616	4. 68197514	2. 7513258
C	-6. 915322	0. 96735848	-0. 4543555	H	-2. 8710922	4. 2014552	1. 51837523
C	-7. 0143095	0. 06009634	-1. 5075676	H	0. 90793386	5. 67266598	1. 79498937
C	-5. 9295027	-0. 7528236	-1. 8302985	H	0. 61490383	5. 82307333	0. 04700657
C	-4. 7444787	-0. 6598464	-1. 0994592	H	-0. 732975	5. 89608009	1. 1594719
C	-2. 0549461	3. 84426121	2. 15327188	H	3. 21250888	3. 38324384	0. 24061397
C	0. 2268582	5. 40294027	0. 98175069	H	3. 87562863	1. 45232429	1. 06590741
O	2. 46745152	3. 84780805	0. 67526126	H	-0. 1295378	-1. 6031066	2. 07130349
H	1. 58238018	1. 61698435	1. 54415639	H	3. 01358333	-6. 2551809	1. 20879939
O	3. 74619784	1. 64548386	0. 11786394	H	3. 36571078	-4. 5779874	1. 64686956
O	0. 24609257	-0. 7213509	1. 88467967	H	1. 66777411	-5. 1438558	1. 54029106
H	2. 85832971	-0. 6110278	1. 04984982	H	2. 49070957	-4. 1307875	-2. 5494467
H	1. 01943996	-1. 0732606	-1. 3538679	H	4. 72570363	-3. 1029627	-2. 5149448
C	2. 62633625	-4. 8512026	-0. 3510309	H	5. 90426796	-2. 6653087	-1. 2714887
O	2. 71023646	-5. 7189853	-1. 2280115	H	5. 14442993	-4. 2553258	-1. 2335863
C	2. 6678648	-5. 2221204	1. 108365	H	0. 10577485	-3. 3892201	-1. 2393317

0	2.10803657	-3.3258647	-2.1385371					
conformer 1a_7								
C	-0.9860546	3.00157113	1.01267091	C	4.52458657	-3.2572859	-2.7640066	
C	1.18628451	1.55034558	-0.170397	H	-1.1983706	0.9892877	1.65208872	
C	1.07931772	3.07343529	-0.4090832	O	-0.15687	-3.4125397	-1.0416512	
C	0.01945311	3.72115235	0.46033794	H	0.87388192	3.29298399	-1.4630535	
C	-0.0898373	-0.6574873	-0.1576335	H	-1.0480373	-1.1199192	-0.4133887	
C	0.98652769	-1.2856105	-1.0728402	H	2.10832437	1.17161758	-2.1118139	
C	2.35452703	-0.6157032	-0.8994002	H	1.41551571	-2.9931705	0.19700822	
C	2.27610299	0.9117332	-1.0609757	H	3.96122071	-2.9167403	-0.7339343	
C	1.1276525	-2.8071441	-0.8431956	H	4.35091415	-0.7487971	-1.7516028	
C	2.15518907	-3.4584271	-1.7957536	H	3.05832791	-0.9845814	-2.920095	
C	3.52145842	-2.7397468	-1.7243333	H	-3.1953998	2.25159994	0.01176424	
C	3.36907583	-1.2174796	-1.8928771	H	-2.8437223	1.46615847	-2.1839579	
C	-0.1916782	0.88244765	-0.3034285	H	-4.2708775	-0.0273173	-0.2211552	
C	-1.224916	1.51515221	0.69186118	H	-2.8928613	-0.7637266	0.54001203	
C	-2.595947	1.33475819	-0.0250959	H	-2.6609864	-0.748142	2.95424748	
N	-2.246237	1.17412144	-1.4189179	H	-3.6616382	-0.2480678	5.1516262	
C	-0.8862086	1.15275803	-1.6271177	H	-5.6422893	1.2350383	5.31625553	
O	-0.3601409	1.28749478	-2.717867	H	-6.6287902	2.21787045	3.2642982	
C	-3.4591228	0.17119464	0.49218527	H	-5.6455096	1.72847563	1.05456325	
C	-4.0785598	0.45439166	1.83983269	H	-2.1879319	2.83230463	2.79477664	
C	-3.532391	-0.0985211	3.00587563	H	-1.5236858	4.42888583	2.57226667	
C	-4.0935299	0.18330112	4.25214146	H	-2.8767851	3.89920649	1.55197073	
C	-5.2056749	1.01749476	4.34499439	H	0.9503153	5.44630416	1.35178658	
C	-5.7590105	1.56998798	3.19180739	H	0.38985832	5.68906147	-0.3194138	
C	-5.1991078	1.29032312	1.94451888	H	-0.7685091	5.69072011	0.98686186	
C	-1.9471825	3.57824072	2.03036404	H	2.36089378	4.54410272	-0.481146	
C	0.15240979	5.21472071	0.63940578	H	3.44492066	2.34806193	-0.4167836	
O	2.35480309	3.64833932	-0.1002597	H	-0.1283674	-1.9010924	1.34391605	
H	1.53398374	1.41620679	0.86703612	H	3.28008676	-4.7980474	0.42093058	
O	3.5698359	1.41981728	-0.7097611	H	1.57729301	-5.3558779	0.48001813	
O	0.17738668	-0.9843981	1.20845907	H	2.8687179	-6.44932	-0.0610614	
H	2.73158022	-0.8274594	0.11219811	H	1.94792605	-4.1257744	-3.6213945	
H	0.64760933	-1.1295024	-2.1064003	H	5.4849549	-2.7400363	-2.6614318	
C	2.31485466	-4.9651613	-1.4910234	H	4.71723197	-4.3265728	-2.6339621	
O	2.28809992	-5.7869313	-2.4149981	H	4.16811516	-3.0956555	-3.7865627	
C	2.52084804	-5.412116	-0.0671852	H	-0.273929	-3.4541564	-2.0155748	
O	1.610074	-3.3481584	-3.1275463					
conformer 1a_8								
C	-0.4302685	3.27720458	1.35357659	C	4.36680972	-3.712336	-2.0987137	
C	1.55685339	1.56080081	0.19915908	H	-0.7772445	1.3502027	2.1746781	
C	1.55375756	3.06195419	-0.1664523	O	-0.2117585	-3.3318546	-0.1514384	
C	0.59964809	3.86320692	0.69828709	H	1.30259222	3.2084937	-1.2232531	
C	0.11963737	-0.5250809	0.47811766	H	-0.8845115	-0.9299227	0.32058293	
C	1.08981767	-1.3172054	-0.4282351	H	2.33864285	0.94148875	-1.7422747	

C	2. 51296102	-0. 748278	-0. 3849177	H	1. 45157484	-2. 936292	0. 97161221
C	2. 54351756	0. 76092251	-0. 681485	H	3. 9445443	-3. 1475607	-0. 0844595
C	1. 12483171	-2. 8190113	-0. 0670838	H	4. 44177946	-1. 1178338	-1. 3186502
C	2. 0462783	-3. 6334182	-1. 0027095	H	3. 07088245	-1. 350904	-2. 3948558
C	3. 46533735	-3. 0244647	-1. 0646719	H	-2. 7311936	2. 6420892	0. 52317964
C	3. 4206192	-1. 5159632	-1. 3670465	H	-2. 5921474	1. 59732468	-1. 5970596
C	0. 12645351	0. 99822289	0. 19213838	H	-2. 7159503	-0. 3592345	1. 19439229
C	-0. 7998752	1. 79584787	1. 17276226	H	-3. 1716685	0. 89639705	2. 32011271
C	-2. 2149894	1. 67499462	0. 53866553	H	-5. 224721	2. 27843573	1. 94302047
N	-1. 9556238	1. 35609259	-0. 8452761	H	-7. 5058307	2. 28369719	1. 00055629
C	-0. 616838	1. 20177885	-1. 1180006	H	-8. 1250613	0. 67547193	-0. 7825069
O	-0. 1415665	1. 18565125	-2. 2397148	H	-6. 449404	-0. 9469778	-1. 6257941
C	-3. 1203276	0. 65586286	1. 25015109	H	-4. 1620342	-0. 9678118	-0. 6979499
C	-4. 5265162	0. 65082077	0. 69464583	H	-1. 650131	3. 3415264	3. 13268607
C	-5. 4796714	1. 56601074	1. 1618444	H	-0. 751425	4. 81577276	2. 85963979
C	-6. 7705892	1. 57327267	0. 63148819	H	-2. 1712511	4. 45246438	1. 85062336
C	-7. 1192344	0. 66975973	-0. 3706881	H	1. 72621908	5. 56623057	1. 38188137
C	-6. 177858	-0. 2421274	-0. 8440657	H	1. 06112843	5. 72995013	-0. 2604381
C	-4. 8866439	-0. 2518295	-0. 3152404	H	0. 01015802	5. 92527837	1. 12219389
C	-1. 2980222	4. 01858083	2. 34667535	H	2. 93869945	4. 40809556	-0. 4443748
C	0. 86097776	5. 34979508	0. 74753212	H	3. 85323613	2. 14823321	-0. 2294484
O	2. 88492702	3. 55578341	0. 02300844	H	0. 07175656	-1. 6121223	2. 09745189
H	1. 94975162	1. 48730739	1. 22651318	H	3. 18500261	-4. 8556236	1. 27330205
O	3. 88981175	1. 19053809	-0. 4401843	H	1. 4509798	-5. 2687685	1. 46473008
O	0. 44517387	-0. 7442147	1. 85314337	H	2. 6255324	-6. 505273	0. 96694822
H	2. 92903306	-0. 9007019	0. 62207398	H	1. 68958869	-4. 4414542	-2. 7466963
H	0. 705849	-1. 2256608	-1. 4536692	H	3. 96771588	-3. 613936	-3. 1135324
C	2. 10711555	-5. 114952	-0. 5668436	H	5. 36815257	-3. 2677764	-2. 0911062
O	1. 96693926	-6. 0110026	-1. 4077965	H	4. 48396906	-4. 7779009	-1. 8790778
C	2. 35644293	-5. 4483722	0. 88097142	H	-0. 3807335	-3. 4508964	-1. 1112814
O	1. 4383916	-3. 5987991	-2. 3113532				

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C	-1. 3874387	3. 09553592	1. 83914769	C	4. 47087974	-2. 1084957	-2. 8792231
C	0. 82193679	2. 03118437	0. 34998284	H	-1. 5461057	0. 99080088	2. 07248273
C	0. 60177685	3. 55598598	0. 38570343	O	-0. 1450543	-2. 8678375	-1. 1691234
C	-0. 452471	3. 96547561	1. 39314904	H	0. 33097038	3. 9419161	-0. 6030874
C	-0. 2659547	-0. 2461638	0. 11158247	H	-1. 1915192	-0. 7596827	-0. 1541755
C	0. 81569929	-0. 6629492	-0. 91339	H	1. 67056611	1. 98820982	-1. 6674509
C	2. 13049577	0. 09823396	-0. 6929829	H	1. 3934209	-2. 4803745	0. 12270929
C	1. 91337707	1. 62170919	-0. 6645536	H	3. 91949458	-2. 0528179	-0. 8181162
C	1. 08305626	-2. 1846066	-0. 8850113	H	4. 10237843	0. 24495668	-1. 5947329
C	2. 14545592	-2. 6218335	-1. 918983	H	2. 80018048	0. 02871797	-2. 7566822
C	3. 44747955	-1. 802302	-1. 77733	H	-3. 3983409	2. 63923087	0. 50539622
C	3. 16097675	-0. 2904121	-1. 7699111	H	-3. 2093726	1. 81310652	-1. 6528818
C	-0. 5081338	1. 28488856	0. 15354716	H	-4. 2942631	1. 03611805	2. 03220854
C	-1. 5693966	1. 69391392	1. 23368721	H	-4. 9137107	0. 79087842	0. 42104135

C	-2. 9303741	1. 6451726	0. 47934121	H	-4. 1193214	-1. 1818666	-0. 9678568
N	-2. 6034109	1. 47756536	-0. 9124851	H	-3. 5382284	-3. 5759799	-0. 8310218
C	-1. 2505291	1. 63411937	-1. 1246231	H	-2. 7586682	-4. 5543405	1. 3057953
O	-0. 7643221	1. 95128547	-2. 1956968	H	-2. 5666363	-3. 1266715	3. 32740361
C	-4. 0047015	0. 69166027	1. 03038948	H	-3. 1316312	-0. 7294489	3. 21156767
C	-3. 6593822	-0. 7729201	1. 10906752	H	-2. 5030017	2. 5351764	3. 59413656
C	-3. 7820984	-1. 5943196	-0. 019457	H	-1. 9673323	4. 19883763	3. 62832333
C	-3. 4562973	-2. 9493778	0. 05354924	H	-3. 316072	3. 73538225	2. 56957944
C	-3. 0143587	-3. 4991564	1. 25518092	H	0. 39827784	5. 563812	2. 56104429
C	-2. 9027101	-2. 696193	2. 38756483	H	-0. 1891535	6. 0547411	0. 95591735
C	-3. 2246447	-1. 3400292	2. 31594996	H	-1. 3358547	5. 77055123	2. 24534579
C	-2. 3464707	3. 41729747	2. 96355268	H	2. 01484265	3. 92285623	1. 67667301
C	-0. 3935157	5. 41346801	1. 82066315	H	3. 01004221	3. 17062137	-0. 194444
O	1. 83843215	4. 17905438	0. 75184796	H	-0. 3041832	-1. 5745777	1. 52499872
H	1. 22318456	1. 75465504	1. 3390085	H	3. 14548884	-5. 7242706	-0. 5658045
O	3. 16827649	2. 20861584	-0. 2997513	H	3. 40674758	-4. 1130587	0. 11540293
O	0. 11563819	-0. 6982942	1. 41476725	H	1. 76421565	-4. 831845	0. 10690147
H	2. 55741494	-0. 197579	0. 27691995	H	1. 95262981	-3. 0883752	-3. 8075894
H	0. 42473251	-0. 4096439	-1. 9083463	H	4. 75721939	-3. 1646064	-2. 8748178
C	2. 437637	-4. 1348879	-1. 8015447	H	4. 0822026	-1. 8633683	-3. 8730304
O	2. 46853314	-4. 8379246	-2. 818878	H	5. 38517828	-1. 5243327	-2. 7268914
C	2. 7020944	-4. 7316282	-0. 443826	H	-0. 2855141	-2. 7548516	-2. 1332697
O	1. 56924031	-2. 3987119	-3. 224561				

conformer **1a\_10**

C	-1. 7913324	2. 59451883	1. 10957217	C	5. 48834329	-1. 9042925	-2. 1517582
C	0. 80553505	1. 77476477	0. 2006928	H	-1. 6544127	0. 51019328	1. 49629202
C	0. 41888857	3. 26669202	0. 12757716	O	0. 68260539	-3. 1037907	-1. 6822861
C	-0. 8910568	3. 56450189	0. 82563818	H	0. 36680612	3. 61339925	-0. 9101034
C	0. 05727983	-0. 6133286	-0. 247296	H	-0. 7248942	-1. 2235347	-0. 7048894
C	1. 35524868	-0. 8720792	-1. 0495744	H	2. 09648923	1. 86674708	-1. 5658228
C	2. 50928951	-0. 0047673	-0. 5329401	H	1. 81473799	-2. 7230448	-0. 0155929
C	2. 13487735	1. 49053744	-0. 537561	H	4. 44716427	-1. 9980895	-0. 2902391
C	1. 74028928	-2. 3682278	-1. 0487812	H	4. 60948872	0. 34942822	-0. 9537407
C	3. 05413963	-2. 6489784	-1. 8140095	H	3. 63199574	0. 07451393	-2. 3894969
C	4. 20350817	-1. 7377366	-1. 3287738	H	-3. 6099333	1. 55384631	-0. 3309506
C	3. 78683262	-0. 256135	-1. 3540059	H	-2. 7551469	1. 19547448	-2. 5062873
C	-0. 3615947	0. 87950892	-0. 248051	H	-4. 1553343	-0. 789547	-0. 9874399
C	-1. 6489986	1. 14602664	0. 60494086	H	-2. 7315195	-1. 388065	-0. 1962324
C	-2. 818413	0. 79680846	-0. 3651454	H	-2. 7506415	-1. 8529873	2. 16382638
N	-2. 2320042	0. 92819919	-1. 6800749	H	-4. 0163002	-1. 9721697	4. 27868471
C	-0. 8843406	1. 1986286	-1. 639123	H	-6. 2313121	-0. 8726671	4. 47483671
O	-0. 2321678	1. 59128246	-2. 5902644	H	-7. 1861916	0. 34571445	2. 53734151
C	-3. 4682755	-0. 5816913	-0. 1555265	H	-5. 9388487	0. 47390247	0. 41155224
C	-4. 2493087	-0. 6747295	1. 13306853	H	-3. 2057934	1. 97331705	2. 61230363
C	-3. 7219756	-1. 3651536	2. 23288287	H	-2. 8817565	3. 6882712	2. 64814231
C	-4. 4330426	-1. 4335855	3. 43147384	H	-3. 8967812	3. 02210006	1. 35427609

C	-5. 6771149	-0. 8156674	3. 54163997	H	-0. 5646643	5. 3180995	2. 03544094
C	-6. 2128696	-0. 1307105	2. 45275151	H	-0. 7839482	5. 64837296	0. 30234844
C	-5. 5035566	-0. 0605602	1. 25297318	H	-2. 1755168	5. 26692858	1. 2909966
C	-3. 0121499	2. 83917264	1. 97057053	H	1. 35077529	3. 89217994	1. 72614797
C	-1. 1197496	5. 02535333	1. 13890659	H	2. 93799673	3. 12013536	0. 18404028
O	1. 45718431	4. 02014071	0. 76546447	H	0. 89117315	-0. 591232	1. 55381034
H	1. 00804347	1. 56337926	1. 2631129	H	3. 98949008	-5. 7479208	-0. 4093241
O	3. 20113329	2. 17602981	0. 1280739	H	3. 91768602	-4. 172906	0. 39277205
O	0. 19010626	-1. 0869877	1. 09852732	H	2. 40515515	-5. 0239945	-0. 0583434
H	2. 74586271	-0. 2923125	0. 50147209	H	3. 34311603	-3. 0118999	-3. 7138729
H	1. 14871345	-0. 5895992	-2. 0911405	H	5. 86247162	-2. 9314399	-2. 1031475
C	3. 45037353	-4. 1384823	-1. 7026379	H	5. 33214171	-1. 6462583	-3. 2042892
O	3. 79529682	-4. 7607356	-2. 7145237	H	6. 27965848	-1. 253235	-1. 7640054
C	3. 43420776	-4. 8070295	-0. 3530649	H	0. 79069548	-2. 9405815	-2. 6433195
O	2. 78614544	-2. 381274	-3. 2085155				

conformer **1a\_11**

C	-1. 4922248	2. 77199864	2. 27820783	C	4. 4772883	-1. 5080665	-3. 1807603
C	0. 71459898	2. 0343681	0. 58669601	H	-1. 5235928	0. 65195307	2. 24716657
C	0. 4412287	3. 52806436	0. 85943629	O	-0. 0691651	-2. 6752068	-1. 5214709
C	-0. 6128153	3. 73833525	1. 92845319	H	0. 13787687	4. 04645646	-0. 0571681
C	-0. 266095	-0. 2512246	0. 10061385	H	-1. 1731413	-0. 7785576	-0. 2000403
C	0. 79739105	-0. 4777275	-1. 0022222	H	1. 39689229	2. 2620048	-1. 4781434
C	2. 07862925	0. 32930159	-0. 7301922	H	1. 48032001	-2. 3833163	-0. 2169794
C	1. 75307487	1. 82393631	-0. 5404845	H	3. 9494556	-1. 7197827	-1. 1230636
C	1. 13325816	-1. 9764642	-1. 1726228	H	4. 02904666	0. 6539186	-1. 6294004
C	2. 18818256	-2. 2294001	-2. 2718608	H	2. 71717213	0. 52634615	-2. 7949582
C	3. 45575633	-1. 3782957	-2. 0425065	H	-3. 5266627	2. 37397492	0. 96815298
C	3. 10490571	0. 10915505	-1. 8563756	H	-3. 3870818	1. 83626439	-1. 2786273
C	-0. 5860608	1. 24773531	0. 34854248	H	-4. 2771943	0. 55122083	2. 31073349
C	-1. 6208461	1. 45264471	1. 50700542	H	-4. 9416135	0. 46087004	0. 70144447
C	-3. 0079641	1. 41941345	0. 80171493	H	-4. 0885402	-1. 2849532	-0. 9365694
N	-2. 7327112	1. 44391001	-0. 6111382	H	-3. 3718741	-3. 6405795	-1. 1021855
C	-1. 4009974	1. 70989251	-0. 8476228	H	-2. 4651131	-4. 8150309	0. 88043739
O	-0. 9797238	2. 17982831	-1. 8902447	H	-2. 2802508	-3. 6244184	3. 05106161
C	-4. 0063739	0. 34508897	1. 26655764	H	-2. 9790455	-1. 2670674	3. 23641192
C	-3. 5773943	-1. 0956062	1. 15957099	H	-2. 5280029	1. 93057023	3. 96926838
C	-3. 6948475	-1. 7850981	-0. 0544463	H	-2. 0520559	3. 59329729	4. 21945532
C	-3. 2924973	-3. 1178906	-0. 1523076	H	-3. 4173584	3. 22608612	3. 14379528
C	-2. 7789153	-3. 777661	0. 96239186	H	0. 20031475	5. 19023109	3. 2988285
C	-2. 6716765	-3. 1075574	2. 17852291	H	-0. 4434809	5. 87903613	1. 79011371
C	-3. 0696668	-1. 7735033	2. 27758833	H	-1. 5473772	5. 36560624	3. 04404308
C	-2. 4242723	2. 8965405	3. 46282108	H	2. 38464304	3. 70938552	0. 88565748
C	-0. 6011388	5. 1127039	2. 55748588	H	3. 47747334	2. 62386355	-1. 0122355
O	1. 63546804	4. 15905714	1. 33033891	H	-0. 2408618	-1. 719892	1. 37062102
H	1. 18696921	1. 64372961	1. 50318126	H	1. 94200093	-4. 6973326	-0. 5478175
O	2. 95530105	2. 52490472	-0. 19471	H	3. 33623376	-5. 4404684	-1. 3605703

O	0. 1942826	-0. 8459085	1. 31794597	H	3. 55787864	-3. 9232654	-0. 4785247
H	2. 54530709	-0. 0343874	0. 19694735	H	1. 94459198	-2. 4775163	-4. 1958932
H	0. 3565176	-0. 1252643	-1. 9449443	H	4. 06449455	-1. 1691293	-4. 1365594
C	2. 54229475	-3. 730888	-2. 3608489	H	5. 36633754	-0. 9035758	-2. 9696593
O	2. 57741515	-4. 2891922	-3. 4640901	H	4. 81124104	-2. 5432486	-3. 3003094
C	2. 8614829	-4. 4900405	-1. 0996377	H	-0. 24776	-2. 4377713	-2. 4557835
O	1. 58106797	-1. 8564055	-3. 5282386				

conformer **1a\_12**

C	-0. 9464318	3. 47298015	1. 437247	C	4. 22226573	-3. 1210503	-2. 2289213
C	1. 1422416	1. 90123112	0. 26070658	H	-1. 501773	1. 46250388	1. 82792339
C	1. 21412361	3. 43792734	0. 15424199	O	-0. 5974333	-2. 8625878	-0. 9992383
C	0. 16861002	4. 11511551	1. 01843501	H	1. 10225486	3. 77574361	-0. 8822695
C	-0. 321008	-0. 1638056	0. 10356044	H	-1. 302618	-0. 5331251	-0. 1973342
C	0. 73937303	-0. 8593546	-0. 7840058	H	2. 09728372	1. 49875573	-1. 6593626
C	2. 15047918	-0. 3304496	-0. 4877346	H	0. 85511351	-2. 6570119	0. 42708511
C	2. 20802505	1. 2030026	-0. 611319	H	3. 4913522	-2. 7752436	-0. 2533938
C	0. 70574779	-2. 3960719	-0. 6259353	H	4. 18834799	-0. 6291222	-1. 1723787
C	1. 75805995	-3. 1079024	-1. 5064522	H	2. 98614766	-0. 7123085	-2. 4535171
C	3. 17351466	-2. 5318615	-1. 2758645	H	-2. 8945935	3. 24932287	-0. 0394055
C	3. 1834901	-0. 998568	-1. 4120114	H	-2. 6941258	2. 1927944	-2. 0897471
C	-0. 2831305	1. 38451692	-0. 0003802	H	-4. 1942276	2. 00213177	1. 51954501
C	-1. 3330347	2. 07451533	0. 93606605	H	-4. 7096276	1. 6826339	-0. 1151858
C	-2. 6169659	2. 19095997	0. 06440823	H	-4. 1613072	-0. 5441059	-1. 2137908
N	-2. 2200557	1. 82793527	-1. 2711179	H	-4. 028921	-2. 9697477	-0. 7813192
C	-0. 8481827	1. 73144476	-1. 3668053	H	-3. 6265762	-3. 8120804	1. 51231218
O	-0. 2308455	1. 8503738	-2. 4104031	H	-3. 360573	-2. 2129128	3. 39266809
C	-3. 8876662	1. 50172816	0. 59121847	H	-3. 4766949	0. 21571291	2. 98147455
C	-3. 8170664	0. 01858815	0. 84932106	H	-2. 2879862	3. 2881396	3. 11222666
C	-3. 9860353	-0. 8951852	-0. 1991679	H	-1. 4463935	4. 81933128	3. 07863174
C	-3. 9137192	-2. 2680961	0. 0410996	H	-2. 7680211	4. 52144883	1. 9294337
C	-3. 6830426	-2. 7418817	1. 33102286	H	1. 21219371	5. 6184253	2. 15652584
C	-3. 5295125	-1. 8437701	2. 38426749	H	0. 86417577	6. 07652963	0. 473105
C	-3. 5970702	-0. 4703174	2. 14551031	H	-0. 4172032	6. 11761091	1. 66106198
C	-1. 9131883	4. 06588717	2. 4377056	H	3. 15719952	3. 38276302	0. 09513612
C	0. 47033035	5. 55728099	1. 35414368	H	3. 6612096	1. 33062518	0. 70218101
O	2. 49245729	3. 88145405	0. 61434474	H	-0. 7595433	-1. 2604274	1. 64401063
H	1. 40674927	1. 65674092	1. 30277554	H	2. 50365828	-4. 6315872	0. 74651098
O	3. 51308277	1. 64463425	-0. 2102848	H	0. 76172502	-5. 0307968	0. 60032516
O	-0. 1099479	-0. 5512671	1. 46552282	H	2. 00285529	-6. 2177142	0. 14463062
H	2. 42595144	-0. 599081	0. 54263321	H	1. 65032121	-3. 6918254	-3. 3696442
H	0. 48657916	-0. 6260855	-1. 8272762	H	3. 98606469	-2. 904176	-3. 275813
C	1. 74090048	-4. 6335974	-1. 2610871	H	5. 21186618	-2. 7009528	-2. 0177371
O	1. 73773773	-5. 412043	-2. 2222403	H	4. 30038862	-4. 2064011	-2. 1136318
C	1. 75047152	-5. 1532734	0. 15275071	H	-0. 6235432	-2. 8039866	-1. 9779684
O	1. 3657164	-2. 8910148	-2. 8790255				

Table S2. Cartesian coordinates for the low-energy optimized conformers of **2a** at B3LYP-D3(BJ)/6-311G\* level.

conformer <b>2a_1</b>							
C	-1.4074312	3.03848905	-0.2130818	C	5.28167855	-3.1059743	1.03687339
C	1.05063952	1.63279923	0.40496802	H	-1.9511117	1.11430043	0.49958741
C	1.08520723	3.13854853	0.09218329	O	0.52106133	-3.4744386	-0.4193819
C	-0.2754607	3.76837052	-0.0825725	H	1.55489928	3.63225398	0.9532817
C	0.02868112	-0.6443983	-0.0830858	H	-0.5625655	-1.2088322	-0.81039
C	1.44379264	-1.2728435	-0.0594896	H	2.9049345	1.07797843	-0.6264265
C	2.42772662	-0.4684483	0.80198773	H	1.01666625	-2.7828425	1.44023911
C	2.4569001	1.00578479	0.37051028	H	3.59286754	-2.5876301	2.2347179
C	1.41963481	-2.7406046	0.42266379	H	4.52588219	-0.522275	1.36330618
C	2.81590827	-3.4007076	0.38559554	H	4.22003518	-1.0034342	-0.3001702
C	3.85238285	-2.5629388	1.16811994	H	-2.5999456	1.93422222	-2.1758343
C	3.83639382	-1.0890345	0.72523655	H	-0.9914183	1.01059967	-3.5830923
C	0.02439013	0.86535812	-0.4507234	H	-3.2796814	-0.4603404	-2.6291704
C	-1.4042944	1.50659756	-0.3643589	H	-2.6236473	-0.9439377	-1.0942545
C	-2.0783888	1.09149491	-1.7083752	H	-3.875398	-0.5956744	0.95538832
N	-0.964394	0.81161427	-2.5890808	H	-6.0010996	0.05354688	2.02331194
C	0.24408574	0.96206519	-1.9475571	H	-7.7152802	1.30419412	0.73999965
O	1.30454646	1.14786336	-2.519253	H	-7.2976637	1.9025438	-1.6299819
C	-3.0606935	-0.0891643	-1.6185109	H	-5.1790225	1.26045111	-2.7197749
C	-4.3683799	0.28498939	-0.9627332	H	-3.4908132	2.98537026	0.34133887
C	-4.6170697	-0.0508335	0.37486237	H	-2.8044848	4.58455995	0.43011734
C	-5.8174665	0.31625152	0.98459926	H	-3.1595821	3.87737524	-1.1597925
C	-6.7803928	1.01985764	0.26410598	H	-0.0490926	5.61374914	0.99681996
C	-6.5449235	1.35633027	-1.0672929	H	0.54437888	5.67111968	-0.6751146
C	-5.3450212	0.99104318	-1.6790039	H	-1.1747783	5.74110793	-0.3690828
C	-2.786294	3.6604501	-0.1549026	H	1.67893288	2.87021752	-1.7705703
C	-0.2458682	5.27819005	-0.0264058	H	3.58937527	2.52768514	0.80464706
O	1.90485288	3.45953621	-1.0246937	H	-0.9272001	-1.7366473	1.21878671
H	0.69952644	1.56550524	1.4477536	H	0.97598118	-5.0798315	2.08842181
O	3.31573703	1.71252438	1.26785671	H	2.32902133	-6.1171734	2.58763659
O	-0.6010829	-0.8169293	1.18930665	H	2.36573665	-4.3953652	2.99078941
H	2.11212189	-0.5120794	1.85457059	H	3.7613461	-4.2789328	-1.0829055
H	1.80102175	-1.2608369	-1.099283	H	5.97877118	-2.4979143	1.62397947
C	2.75938919	-4.8467157	0.92787842	H	5.35378327	-4.1321615	1.40991306
O	3.3011487	-5.762105	0.29694584	H	5.62555829	-3.0948204	-0.0025707
C	2.05786652	-5.1183979	2.23301395	H	1.02003095	-3.6408511	-1.2483024
O	3.19705171	-3.4798248	-1.0040949				
conformer <b>2a_2</b>							
C	-0.413407	3.40907269	1.12882861	C	4.41870665	-3.8819378	-1.6144665
C	1.62006519	1.55570469	0.21705901	H	-0.805313	1.55231268	2.08168232
C	1.7500718	3.05480732	-0.1010715	O	-0.2548358	-3.2912649	0.03528147
C	0.6966065	3.92010767	0.54816043	H	2.71983764	3.38250304	0.29628979
C	0.09836393	-0.4586407	0.51016858	H	-0.9026041	-0.8488987	0.30394741

C	1. 10364166	-1. 322988	-0. 2897064	H	2. 37181712	0. 78071214	-1. 6921796
C	2. 53713037	-0. 778445	-0. 207299	H	1. 35423202	-2. 859985	1. 22228996
C	2. 58844012	0. 70064526	-0. 6214916	H	3. 89021462	-3. 1810671	0. 33105621
C	1. 08628121	-2. 8002437	0. 16202961	H	4. 50672657	-1. 243377	-0. 9971813
C	2. 03932394	-3. 6870014	-0. 6700857	H	3. 19720712	-1. 5209665	-2. 1375596
C	3. 47367448	-3. 1116416	-0. 6824836	H	-2. 6969188	2. 71694334	0. 2733207
C	3. 48171606	-1. 6253255	-1. 0820505	H	-2. 4646949	1. 59652854	-1. 7636774
C	0. 16475631	1. 05324964	0. 15859049	H	-2. 7172803	-0. 2269457	1. 15927277
C	-0. 789561	1. 92088527	1. 04879656	H	-3. 2116727	1. 10931864	2. 1681844
C	-2. 1835294	1. 75358433	0. 37387356	H	-5. 2459983	2. 45600277	1. 61452074
N	-1. 8757026	1. 3438275	-0. 977237	H	-7. 4881687	2. 39254339	0. 58522292
C	-0. 5205222	1. 23011135	-1. 1828491	H	-8. 0403132	0. 6613242	-1. 1020327
O	0. 01676065	1. 26900435	-2. 276129	H	-6. 3362173	-1. 0155036	-1. 7617916
C	-3. 11935	0. 78972323	1. 12190232	H	-4. 0868528	-0. 9684939	-0. 7459308
C	-4. 5025824	0. 74408959	0. 51346715	H	-1. 8573016	3. 6472537	2. 71606124
C	-5. 4714831	1. 68940599	0. 87674142	H	-0. 8359241	5. 04815458	2. 49521162
C	-6. 7405749	1. 65801889	0. 29691886	H	-2. 1271593	4. 70666595	1. 31771686
C	-7. 0514851	0. 68537723	-0. 6515023	H	1. 88806229	5. 58680115	1. 19914227
C	-6. 0940864	-0. 2570267	-1. 0217171	H	1. 31389507	5. 71136352	-0. 4764293
C	-4. 8245921	-0. 2281204	-0. 443303	H	0. 21036192	6. 03266012	0. 84296775
C	-1. 3590842	4. 25486234	1. 95256379	H	1. 07047319	2. 85273907	-1. 9431857
C	1. 04016863	5. 39158957	0. 53471352	H	4. 02617339	1. 95822584	-0. 9936584
O	1. 79644809	3. 32926269	-1. 4953454	H	-0. 0932995	-1. 4610196	2. 17275036
H	1. 94162791	1. 45892724	1. 26706355	H	2. 43211703	-6. 4539355	1. 48719921
O	3. 92510613	1. 16810065	-0. 4285261	H	3. 02194545	-4. 8042549	1. 73034517
O	0. 32753985	-0. 6192945	1. 91270315	H	1. 26888736	-5. 1606574	1. 84843582
H	2. 89872355	-0. 8573653	0. 82831971	H	1. 75713706	-4. 5881099	-2. 3819246
H	0. 77559587	-1. 283555	-1. 3383473	H	5. 4275629	-3. 4564482	-1. 5752345
C	2. 03790084	-5. 1418925	-0. 1490136	H	4. 49895685	-4. 932907	-1. 3204632
O	1. 92066859	-6. 0807042	-0. 9455141	H	4. 08206391	-3. 842627	-2. 6555939
C	2. 19888443	-5. 3971823	1. 32686451	H	-0. 3748542	-3. 4712744	-0. 922333
O	1. 50949433	-3. 7133094	-2. 0123494				

### conformer 2a\_3

C	-0. 8730751	3. 62423182	1. 08445327	C	4. 07517157	-3. 3118313	-2. 2623315
C	1. 13441094	1. 92152009	-0. 1011206	H	-1. 2716798	1. 67933503	1. 83855769
C	1. 19068093	3. 43836352	-0. 3366133	O	-0. 5715418	-2. 9884829	-0. 5004088
C	0. 18328156	4. 2139032	0. 47891114	H	2. 18477613	3. 77563035	-0. 0148197
C	-0. 2809495	-0. 1599593	0. 18147069	H	-1. 2760713	-0. 5819068	0. 03233301
C	0. 70108711	-0. 945529	-0. 7230031	H	1. 82180503	1. 26967107	-2. 0804407
C	2. 1172293	-0. 3498124	-0. 6781655	H	1. 03030669	-2. 5535371	0. 69726985
C	2. 09283862	1. 14819765	-1. 0264142	H	3. 571293	-2. 7068948	-0. 2781944
C	0. 74785467	-2. 4453664	-0. 3551957	H	4. 06943086	-0. 6984233	-1. 5623761
C	1. 71604685	-3. 2500653	-1. 2513714	H	2. 72708969	-0. 9876715	-2. 6611799
C	3. 12496993	-2. 6173361	-1. 277386	H	-2. 9957811	3. 1126104	-0. 0477468
C	3. 05815094	-1. 1195412	-1. 6225682	H	-2. 9943591	1. 82484845	-1. 9458089
C	-0. 3029551	1. 36455367	-0. 1138503	H	-4. 0083052	2. 05419565	1. 826644

C	-1.2533587	2.15303987	0.8516618	H	-4.7159352	1.49560015	0.33506112
C	-2.6473387	2.09073512	0.15789628	H	-4.2237776	-0.8444702	-0.5158713
N	-2.4071868	1.56326012	-1.1614708	H	-3.9268322	-3.181653	0.21734312
C	-1.0533565	1.53981921	-1.4184991	H	-3.18016	-3.684399	2.52432645
O	-0.5666799	1.6512443	-2.5307867	H	-2.7302798	-1.8314764	4.11429987
C	-3.8005799	1.43959311	0.94045828	H	-3.0066623	0.51161585	3.39895121
C	-3.6265675	0.00999784	1.38274134	H	-2.1030637	3.66650155	2.85429578
C	-3.8964811	-1.045529	0.50185936	H	-1.2462867	5.16363262	2.5824741
C	-3.7320572	-2.3691263	0.91289429	H	-2.6463175	4.75836935	1.56456133
C	-3.307988	-2.6519137	2.20967971	H	1.38246839	5.82594762	1.24251738
C	-3.05211	-1.6116491	3.09950411	H	0.74555896	6.10145524	-0.3915276
C	-3.2110276	-0.2871318	2.68896734	H	-0.3133849	6.2810603	0.98860957
C	-1.764961	4.34991351	2.06754459	H	0.43164945	3.24214549	-2.1529892
C	0.51227975	5.68363147	0.59379329	H	3.47013229	2.47084336	-1.4151618
O	1.08311708	3.81345737	-1.7030114	H	-0.486976	-1.1064045	1.86377423
H	1.51439621	1.78281416	0.9246445	H	2.2830868	-6.089413	0.76664364
O	3.41894885	1.65966004	-0.8748341	H	2.79200958	-4.4239857	1.07617782
O	0.07342291	-0.3681232	1.55188923	H	1.06239064	-4.8768921	1.21015882
H	2.52575209	-0.4579586	0.3372642	H	1.41451179	-4.0924777	-2.9894798
H	0.31802159	-0.8617243	-1.7498688	H	5.06599527	-2.8451049	-2.2336071
C	1.78716608	-4.7257316	-0.7980875	H	4.20788382	-4.3683443	-2.0102034
O	1.69202322	-5.6321455	-1.6344404	H	3.70846205	-3.2491795	-3.2920963
C	1.99218224	-5.0401402	0.66079791	H	-0.7079006	-3.0816888	-1.4671358
O	1.15410457	-3.2383789	-2.5823646				

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C	-1.8489603	2.73192906	-0.6718042	C	5.54729429	-2.1049351	1.75501758
C	0.74373904	1.81922829	0.2246249	H	-2.1441469	0.84314295	0.25571343
C	0.5806312	3.26030925	-0.2892101	O	1.17258245	-3.3665883	-0.2513719
C	-0.8481255	3.64060491	-0.5967463	H	0.9192869	3.92568868	0.51603475
C	0.11197448	-0.6318874	-0.006598	H	-0.3477454	-1.3690113	-0.6690036
C	1.60653819	-1.0199822	0.1157313	H	2.74702329	1.46169194	-0.5987101
C	2.38166562	0.00291182	0.95755021	H	1.24869697	-2.5388849	1.62324031
C	2.22532881	1.41558884	0.36368723	H	3.65328029	-1.7807927	2.68617679
C	1.78205653	-2.4508575	0.67106414	H	4.3922458	0.33387325	1.70211873
C	3.26537482	-2.8497336	0.8439209	H	4.33680315	-0.33468	0.07663759
C	4.04653116	-1.7971129	1.66110946	H	-2.7490907	1.22598076	-2.522575
C	3.86548075	-0.3890965	1.06681416	H	-0.9262644	0.41397306	-3.7411303
C	-0.1005671	0.80056317	-0.5684317	H	-3.0691301	-1.2417619	-2.7344534
C	-1.6108961	1.21079553	-0.62721	H	-2.3495563	-1.5087205	-1.1777025
C	-2.127911	0.53874611	-1.9372947	H	-3.6588255	-1.3007427	0.82954712
N	-0.9310078	0.35242398	-2.7290414	H	-5.8608314	-0.9242041	1.87800985
C	0.1984628	0.75372384	-2.0549152	H	-7.7311708	0.02483232	0.55346728
O	1.25726639	1.03477675	-2.5900464	H	-7.3943401	0.59205218	-1.8370791
C	-2.914368	-0.7707877	-1.753868	H	-5.2011646	0.22046349	-2.9062213
C	-4.2661084	-0.5617529	-1.1149843	H	-3.9288571	2.42229319	-0.1935155
C	-4.4695489	-0.8836208	0.23383611	H	-3.4964504	4.10801844	-0.2869035

C	-5.7123489	-0.6709804	0.83144131	H	-3.6506805	3.16530134	-1.7842085
C	-6.7628825	-0.1376516	0.08737108	H	-0.9653482	5.61951743	0.23558956
C	-6.572817	0.18139318	-1.2557531	H	-0.2916857	5.55882284	-1.4056394
C	-5.3306961	-0.0300062	-1.8557169	H	-2.0166612	5.39606023	-1.1765519
C	-3.3068299	3.13362294	-0.7464566	H	1.32462385	2.85368034	-2.0730781
C	-1.0499132	5.13152318	-0.7406322	H	3.1138756	3.11288274	0.70997915
O	1.40997522	3.55949377	-1.4024449	H	-0.1823613	-0.1347946	1.89350507
H	0.32990723	1.84180741	1.24557684	H	2.64234644	-3.7556254	3.43857137
O	2.87225921	2.33311425	1.24686102	H	1.53899058	-4.7529036	2.43673838
O	-0.550002	-0.7701307	1.25641993	H	2.97991948	-5.4736771	3.18610465
H	1.98608522	0.01346873	1.98292701	H	4.49949551	-3.6525414	-0.4432472
H	2.01830942	-1.0104967	-0.9037213	H	6.05898265	-1.3422951	2.3524765
C	3.38968487	-4.249136	1.48729511	H	5.72673542	-3.0692241	2.24013598
O	4.16519101	-5.0817044	1.00207714	H	6.01970919	-2.1253919	0.7674867
C	2.57929483	-4.5711225	2.71529177	H	1.80193649	-3.4435857	-0.999377
O	3.82770796	-2.9378801	-0.4845072				
conformer <b>2a_5</b>							
C	-1.396596	2.89973667	0.77251883	C	5.2896897	-2.8868631	-1.5316129
C	1.06781438	1.65961865	0.00270393	H	-1.6573913	0.85574487	1.23392733
C	0.89367449	3.17670585	-0.208366	O	0.37579452	-3.43492	-0.8344515
C	-0.3419197	3.69769551	0.48735585	H	1.77072604	3.69262521	0.20133865
C	0.00696206	-0.6451373	-0.1404512	H	-0.8425692	-1.2054638	-0.545218
C	1.30643122	-1.2076375	-0.7672957	H	2.3531929	1.27419045	-1.7226624
C	2.54354967	-0.393056	-0.355548	H	1.60113847	-2.8032142	0.67462194
C	2.35154344	1.10820495	-0.6417864	H	4.26534341	-2.5125082	0.30298727
C	1.52820139	-2.6950713	-0.4128448	H	4.67846707	-0.3618191	-0.7495555
C	2.79150885	-3.2806613	-1.0839067	H	3.70056712	-0.7808071	-2.1501174
C	4.04091971	-2.425209	-0.7683392	H	-3.2230348	2.13176788	-0.8300557
C	3.79778001	-0.9339069	-1.067109	H	-2.3503722	1.27186652	-2.8718175
C	-0.1921835	0.87338428	-0.4004145	H	-4.1729842	-0.1703152	-1.28727
C	-1.4705128	1.43180481	0.32089072	H	-2.976179	-0.8811162	-0.2457324
C	-2.6177549	1.22590493	-0.7096058	H	-3.3756	-1.0026827	2.12865328
N	-1.943349	1.04475144	-1.9720218	H	-4.8712766	-0.5776097	4.04301932
C	-0.5750517	1.01827133	-1.8648856	H	-6.8168484	0.94017151	3.79727117
O	0.17936783	1.00928116	-2.8239057	H	-7.2688342	2.03269265	1.61732084
C	-3.5491827	0.03838711	-0.4069846	H	-5.7873975	1.61872737	-0.3117317
C	-4.4682342	0.27953432	0.76583665	H	-2.8989077	2.57232802	2.28022188
C	-4.2256955	-0.3362346	2.00102175	H	-2.3568478	4.22718135	2.21588439
C	-5.0680607	-0.097554	3.0878867	H	-3.4260181	3.61484118	0.94070353
C	-6.1610336	0.75563638	2.95046088	H	0.40101769	5.33734774	1.65717355
C	-6.4143801	1.3695854	1.72572388	H	0.11175522	5.73095231	-0.0490089
C	-5.5733559	1.13250413	0.63768265	H	-1.2443032	5.60773899	1.04779588
C	-2.5829417	3.36046944	1.58911658	H	1.54915565	3.22930327	-2.0484358
C	-0.2718704	5.16972746	0.81023203	H	3.5505607	1.63687194	0.82419132
O	0.76756792	3.55416859	-1.5694023	H	-0.2835975	-1.794873	1.40662171
H	1.19613257	1.53218466	1.09035157	H	3.36180182	-6.1138402	0.94419916

O	3.4773828	1.82602402	-0.1278197	H	3.50988092	-4.4116633	1.4020048
O	0.03396696	-0.8813342	1.27256286	H	1.89199308	-5.1321265	1.12252872
H	2.71078002	-0.5143109	0.72472366	H	3.03582122	-4.0468304	-2.8666869
H	1.1863006	-1.1387555	-1.8566698	H	6.15432635	-2.2705306	-1.2615913
C	3.01381361	-4.7501723	-0.6600622	H	5.54338506	-3.9236484	-1.2905881
O	3.27118525	-5.605591	-1.5151961	H	5.15329957	-2.8109651	-2.6153317
C	2.93499826	-5.1170759	0.79883651	H	0.46191622	-3.5161081	-1.8091849
O	2.54457017	-3.2783199	-2.5047022				
conformer <b>2a_6</b>							
C	-1.5940552	2.92325935	-0.6615897	C	5.21672433	-2.5381673	2.12681633
C	0.84400231	1.78430301	0.39985466	H	-2.1034453	1.0418013	0.17783606
C	0.829723	3.24833537	-0.0748466	O	0.83329231	-3.4297273	-0.0114193
C	-0.5368818	3.74822064	-0.4773997	H	1.15414236	3.86238782	0.77574933
C	0.04752853	-0.6034453	0.03630525	H	-0.3785843	-1.2776539	-0.7113574
C	1.47923306	-1.1192457	0.31304595	H	2.86328772	1.28068962	-0.2987395
C	2.27933619	-0.1603623	1.20502017	H	0.90206465	-2.5567867	1.85884689
C	2.27627501	1.26480884	0.62601862	H	3.34004735	-2.0194338	3.00508786
C	1.4747573	-2.5403286	0.92315627	H	4.27924876	0.00509623	2.03677428
C	2.90557383	-3.0835383	1.16797826	H	4.23615705	-0.6704479	0.41352608
C	3.75617461	-2.0873903	1.99022133	H	-2.4558239	1.5421562	-2.6254849
C	3.71996506	-0.675358	1.38268191	H	-0.6080425	0.62689202	-3.7235056
C	-0.0094781	0.85769496	-0.4866953	H	-2.9336413	-0.8967952	-2.9317619
C	-1.4750345	1.38864352	-0.6490574	H	-2.3744421	-1.2423157	-1.3248971
C	-1.9369916	0.79431252	-2.0154135	H	-3.8316459	-0.9476303	0.57533481
N	-0.6989939	0.53234175	-2.7177128	H	-6.0836815	-0.4233965	1.43459228
C	0.40178624	0.82599112	-1.9466607	H	-7.7607271	0.66497487	-0.0329123
O	1.51835623	1.02997959	-2.390625	H	-7.1792514	1.22453075	-2.3776155
C	-2.8311237	-0.4548255	-1.9310307	H	-4.9337289	0.70617739	-3.2596697
C	-4.2142427	-0.155628	-1.4059811	H	-3.7236175	2.76316554	-0.360364
C	-4.5556889	-0.4715759	-0.0838763	H	-3.1586994	4.41190335	-0.3582938
C	-5.827555	-0.1752825	0.40766628	H	-3.2612762	3.5291593	-1.8961879
C	-6.7697195	0.43665765	-0.4165725	H	-0.5689427	5.70526148	0.4124118
C	-6.4421332	0.75134816	-1.7338755	H	0.22584802	5.63973534	-1.173508
C	-5.1706985	0.45653273	-2.2277973	H	-1.5192025	5.60617333	-1.0830307
C	-3.0065238	3.43983168	-0.8363182	H	1.68119323	2.83297018	-1.8092516
C	-0.6128298	5.25401829	-0.5839613	H	3.27714986	2.87879575	1.05787921
O	1.7624213	3.51346256	-1.1128995	H	-0.4122257	-0.206835	1.92131575
H	0.35765744	1.80518672	1.3886134	H	3.10575202	-6.5091312	2.00868144
O	2.9321626	2.1181379	1.56470639	H	2.68213597	-5.8651684	0.40888208
O	-0.768442	-0.7572546	1.20043465	H	4.31591949	-5.5838352	1.09842424
H	1.82633301	-0.1258228	2.20615937	H	2.79998958	-3.6269509	-0.6871565
H	1.97841614	-1.1745767	-0.6654081	H	5.78128387	-1.8295024	2.74267113
C	2.75804591	-4.4002095	1.96703668	H	5.28666659	-3.5175522	2.61017871
O	2.25134299	-4.4232753	3.09258721	H	5.71375717	-2.6021996	1.15324199
C	3.24987075	-5.6702509	1.32176283	H	-0.1237616	-3.3813182	0.18071877
O	3.51751002	-3.2917192	-0.1093414				

conformer 2a_7							
C	-2.2063807	2.86133879	0.16651516	C	5.55494117	-1.717382	1.84208642
C	0.48576463	2.04001676	0.83653572	H	-2.358884	0.92728957	1.03689229
C	0.22015042	3.48853118	0.39154616	O	1.0875048	-3.1033452	0.14663817
C	-1.2439189	3.81228985	0.20806205	H	0.59224942	4.14137717	1.19220304
C	-0.0604473	-0.4264402	0.57116031	H	-0.5455309	-1.1632336	-0.0737464
C	1.45354464	-0.7538071	0.5616956	H	2.43273796	1.80186787	-0.1498502
C	2.25223509	0.27521816	1.37400979	H	1.27867525	-2.3337463	2.03812588
C	1.98968555	1.69901459	0.84689966	H	3.73163434	-1.5035442	2.93253394
C	1.73077319	-2.1924085	1.05098035	H	4.30211843	0.67012275	1.96406422
C	3.23829908	-2.5320007	1.09242995	H	4.14030309	0.04945081	0.32669392
C	4.04029125	-1.4717685	1.87925402	H	-3.1632192	1.39335849	-1.6701717
C	3.75464763	-0.0552584	1.34935411	H	-1.4219277	0.62761003	-3.0377953
C	-0.3723727	1.011269	0.07300828	H	-2.5834557	-1.3806792	-0.477357
C	-1.898321	1.35493931	0.13800798	H	-4.0208304	-0.4442457	-0.1548209
C	-2.4819069	0.70731307	-1.1536192	H	-5.6652109	0.05793694	-1.99223
N	-1.3388841	0.57690652	-2.0280349	H	-6.6813466	-0.8079537	-4.0684414
C	-0.1812369	1.01623538	-1.4322947	H	-5.4902785	-2.5046795	-5.4293532
O	0.82321733	1.35662638	-2.0331262	H	-3.2692622	-3.3388042	-4.705333
C	-3.2335986	-0.6104599	-0.9018071	H	-2.2349979	-2.4840604	-2.6328393
C	-3.875815	-1.1522391	-2.158972	H	-4.2590879	2.3882647	0.64036688
C	-5.1292755	-0.6854583	-2.5776384	H	-3.8906533	4.0905062	0.78679726
C	-5.7075188	-1.1717575	-3.7511024	H	-4.0543226	3.36176526	-0.8296976
C	-5.0386493	-2.1252724	-4.5165007	H	-1.3415276	5.76064569	1.11164354
C	-3.7910115	-2.5941146	-4.1097116	H	-0.866446	5.7733305	-0.5992125
C	-3.2107564	-2.1097428	-2.9368744	H	-2.5450494	5.53071816	-0.168608
C	-3.6808132	3.20031867	0.18593804	H	0.83518116	3.1767578	-1.4594941
C	-1.5222176	5.29616314	0.13691307	H	2.83269056	3.42045969	1.18697291
O	0.94459873	3.86201486	-0.7711664	H	-0.1953447	-0.0153463	2.51022289
H	0.1521431	2.00908049	1.8862329	H	2.863156	-3.5406551	3.69643701
O	2.6633361	2.61426149	1.71239658	H	1.724742	-4.555281	2.7529562
O	-0.6134509	-0.623302	1.87781352	H	3.24984845	-5.2341266	3.36178269
H	1.94291983	0.235124	2.42785327	H	4.39678706	-3.2412741	-0.3145733
H	1.78164723	-0.6953976	-0.4860366	H	6.08230877	-0.9520978	2.42228164
C	3.47057326	-3.9434293	1.67692878	H	5.81218982	-2.6874797	2.27811633
O	4.23719455	-4.7271252	1.1041281	H	5.94578209	-1.6871038	0.81976764
C	2.77572565	-4.3365003	2.95405451	H	1.6599642	-3.1302242	-0.6491351
O	3.69438897	-2.556378	-0.2787574				

conformer 2a_8							
C	-1.8940138	3.35091253	-0.0254715	C	5.07199901	-2.4333239	1.02745401
C	0.67380599	2.12123472	0.19126726	H	-2.3530026	1.34389272	0.45540638
C	0.58954271	3.58904008	-0.2711611	O	0.2806278	-3.0672863	-0.1775612
C	-0.7988721	4.14605204	-0.0384561	H	1.31158044	4.18162121	0.30271481
C	-0.3053569	-0.2134498	0.02086842	H	-0.9580251	-0.8547482	-0.5762906
C	1.12521684	-0.8052547	-0.0303743	H	2.47647278	1.55169078	-0.9130576

C	2. 14456623	0. 10445563	0. 67914942	H	0. 81269006	-2. 2049112	1. 59987686
C	2. 09678069	1. 53799597	0. 11273931	H	3. 42068955	-1. 8391729	2. 24300734
C	1. 17522511	-2. 2297022	0. 56679174	H	4. 26986651	0. 14421617	1. 12357987
C	2. 59060809	-2. 8461366	0. 51669403	H	3. 88499392	-0. 4999596	-0. 4675687
C	3. 63479944	-1. 9133222	1. 1685903	H	-2. 7619097	2. 54205956	-2. 2016567
C	3. 56029127	-0. 4921603	0. 58119842	H	-1. 5148152	1. 14990428	-3. 5915377
C	-0. 384249	1. 24545626	-0. 5015556	H	-4. 5719068	1. 354444	-1. 1532074
C	-1. 8228294	1. 85178234	-0. 3564522	H	-4. 2004693	0. 67996768	-2. 719105
C	-2. 5045851	1. 58464756	-1. 7272017	H	-2. 9454058	-1. 5411345	-2. 8820491
N	-1. 4811158	1. 04400317	-2. 5841714	H	-2. 8058535	-3. 7934557	-1. 8834433
C	-0. 2373384	1. 16431577	-2. 0100184	H	-3. 5230961	-4. 1709192	0. 45681535
O	0. 8101264	1. 14681343	-2. 6374179	H	-4. 3994649	-2. 2806694	1. 80606191
C	-3. 8132994	0. 77460798	-1. 6952665	H	-4. 5384987	-0. 0196815	0. 83124093
C	-3. 7425393	-0. 6088785	-1. 0971243	H	-3. 8082962	3. 10730896	0. 92788455
C	-3. 2687201	-1. 6887592	-1. 8539459	H	-3. 2738041	4. 76972421	0. 89551195
C	-3. 1887994	-2. 9644913	-1. 2936785	H	-3. 8629235	4. 01144927	-0. 5980976
C	-3. 5898411	-3. 1762504	0. 02380118	H	-0. 4175543	5. 89444676	1. 14613165
C	-4. 0773858	-2. 1140935	0. 78134299	H	-0. 2033017	6. 13348908	-0. 5996948
C	-4. 1552535	-0. 8369992	0. 2238189	H	-1. 81775	6. 07586724	0. 07208689
C	-3. 2807018	3. 84487875	0. 31307347	H	1. 44483202	3. 08897331	-1. 9801653
C	-0. 8196468	5. 64045349	0. 16020553	H	3. 8721003	2. 22518374	0. 57742872
O	0. 86653274	3. 79908645	-1. 6501928	H	-1. 3378888	-1. 0597939	1. 43076932
H	0. 4246023	2. 14427389	1. 26554546	H	0. 88331832	-4. 4367737	2. 4341698
O	2. 96161135	2. 37098128	0. 88858467	H	2. 29724909	-5. 3732913	2. 96359564
O	-0. 7759374	-0. 2619034	1. 37230851	H	2. 27847141	-3. 6219862	3. 21179022
H	1. 89745139	0. 15631772	1. 74970989	H	3. 46002759	-3. 8488805	-0. 9189779
H	1. 40124954	-0. 8783278	-1. 0911291	H	5. 77658184	-1. 75251	1. 51779656
C	2. 60819101	-4. 2406961	1. 18198777	H	5. 18896473	-3. 4139632	1. 49870782
O	3. 15885582	-5. 1880847	0. 60810337	H	5. 37034292	-2. 5204294	-0. 0224179
C	1. 97076927	-4. 4212996	2. 53474095	H	0. 72575734	-3. 2271325	-1. 0363293
O	2. 91765937	-3. 0317156	-0. 8777744				

Table S3. Cartesian coordinates for the low-energy optimized conformers of **3a** at B3LYP-D3(BJ)/6-311G\* level.

conformer <b>3a_1</b>							
C	-0.4883692	3.34882583	0.63292012	O	0.23524374	-0.673379	1.24982012
C	1.52922651	1.49322356	-0.2955556	O	-1.4060616	-2.2593382	1.43972072
C	1.71749465	3.00193047	-0.5267873	C	-0.5288957	-1.5651842	1.93530309
C	0.6645335	3.85643367	0.13757998	C	-0.1314413	-1.588759	3.3779379
C	-0.0521654	-0.4821565	-0.1595826	H	2.68035743	3.27545151	-0.0752669
C	0.93148512	-1.3280826	-1.0118582	H	-1.066804	-0.8188966	-0.3894368
C	2.38350533	-0.8540872	-0.8415156	H	2.38678159	0.82537311	-2.2010369
C	2.51790353	0.65280913	-1.1275164	H	1.0224137	-3.0465202	0.34106069
C	0.82488008	-2.8417918	-0.7171938	H	3.60847717	-3.3458004	-0.4721708
C	1.78413672	-3.6888142	-1.5907047	H	4.35747182	-1.331937	-1.6114196
C	3.23819935	-3.1721303	-1.4921898	H	3.07645547	-1.4536731	-2.8100424
C	3.3213577	-1.6609261	-1.7598243	H	-2.7161823	2.83176472	-0.4710243
C	0.06343288	1.04053299	-0.4544516	H	-2.3785231	1.80102761	-2.5364359
C	-0.9258435	1.88991027	0.41837171	H	-4.1659135	0.79582646	-0.5426261
C	-2.2724588	1.83473339	-0.3726646	H	-2.9535719	-0.1348793	0.28356053
N	-1.8814451	1.47167148	-1.7154985	H	-3.1766855	-0.3463728	2.63131691
C	-0.5236754	1.30240296	-1.827334	H	-4.1235987	0.41286963	4.77593587
O	0.08820003	1.37054436	-2.8792027	H	-5.4554403	2.50114134	4.88563065
C	-3.3453666	0.88136368	0.18319827	H	-5.8482789	3.82927139	2.82913052
C	-3.9396768	1.33344165	1.49531278	H	-4.9065734	3.09216216	0.67406288
C	-3.7413076	0.5820738	2.66122667	H	-1.8494053	3.53653138	2.29244426
C	-4.2809608	1.00391917	3.87725222	H	-0.9202752	4.98305171	2.01372542
C	-5.0318032	2.17564659	3.93901441	H	-2.245467	4.57741683	0.90530343
C	-5.2514854	2.92176793	2.78343816	H	1.83922905	5.43252349	1.0089784
C	-4.7129418	2.50102506	1.56650845	H	1.45827493	5.67344337	-0.7077658
C	-1.4267527	4.16157469	1.4990922	H	0.22646658	5.96895735	0.49535923
C	1.06278957	5.31052504	0.24706846	H	1.14741374	2.88667876	-2.4176391
O	1.82428552	3.36087586	-1.897264	H	4.05086204	1.83863562	-1.3312047
H	1.79513145	1.33524108	0.76243096	H	1.83142248	-6.264927	-2.8605082
O	3.85219756	1.04469143	-0.7987511	H	1.24608326	-7.1782198	-1.4559695
H	2.70751412	-1.0379958	0.19308997	H	0.16986768	-5.9992252	-2.2339771
H	0.63822668	-1.1794342	-2.0608031	H	0.35570626	-3.6015877	-2.8931192
C	1.72582819	-5.1359618	-1.0451637	H	5.21152352	-3.5408231	-2.3310994
O	2.08200635	-5.4109127	0.10476511	H	4.19680845	-4.9817664	-2.252597
C	1.20744074	-6.2109999	-1.9652073	H	3.89926292	-3.7550543	-3.4973332
O	1.33480428	-3.6012677	-2.9463772	H	-1.0524763	-3.1248158	-0.2089911
C	4.18549432	-3.9055714	-2.4511862	H	-0.2469239	-0.591337	3.8097188
H	-1.0345582	1.45064632	1.41637527	H	-0.7826492	-2.2791067	3.92148149
O	-0.5178111	-3.2637619	-1.0231678	H	0.90159227	-1.9324403	3.47132833
conformer <b>3a_2</b>							
C	-0.7585213	3.40764464	1.11686791	O	0.84614387	-0.3686131	1.69990249
C	1.3947689	1.91875202	-0.1241098	O	-0.3887665	-2.2317371	2.20222146
C	1.23001599	3.41839537	-0.4246269	C	0.40016436	-1.3545487	2.52570232

C	0. 1611288	4. 09506279	0. 40088812	C	1. 03378218	-1. 2274473	3. 87555292
C	0. 29314457	-0. 3151655	0. 35958758	H	2. 18284211	3. 90149723	-0. 1709174
C	1. 26100357	-1. 004861	-0. 6397339	H	-0. 6577064	-0. 8541627	0. 32180762
C	2. 59279574	-0. 2473105	-0. 7570057	H	2. 00084058	1. 30450928	-2. 1400478
C	2. 36211273	1. 2339273	-1. 1084144	H	1. 93022804	-2. 5887017	0. 71463025
C	1. 51516696	-2. 490018	-0. 2947244	H	4. 3415696	-2. 4247057	-0. 5507697
C	2. 4587943	-3. 1863548	-1. 3072374	H	4. 45612851	-0. 3806377	-1. 8648618
C	3. 77230116	-2. 391646	-1. 4901961	H	3. 03646877	-0. 8256717	-2. 8023501
C	3. 49868212	-0. 9136418	-1. 8101236	H	-2. 9922828	2. 38078764	0. 51844762
C	0. 04792907	1. 18256486	0. 01398643	H	-2. 868108	1. 26595525	-1. 5325395
C	-0. 9073083	1. 88156759	1. 04116974	H	-2. 4825844	-0. 5317529	1. 35296852
C	-2. 336719	1. 50250193	0. 54726217	H	-3. 0105865	0. 71953037	2. 45291404
N	-2. 1463689	1. 12444777	-0. 8329034	H	-5. 2605903	1. 81064628	2. 16832058
C	-0. 8328069	1. 23296885	-1. 2194633	H	-7. 592138	1. 441824	1. 44898482
O	-0. 460449	1. 35430078	-2. 3732164	H	-8. 1354808	-0. 3787443	-0. 1442045
C	-3. 0205982	0. 41930871	1. 39707529	H	-6. 3325345	-1. 8385545	-1. 021221
C	-4. 4549682	0. 18624345	0. 98109524	H	-3. 9936484	-1. 4863619	-0. 3163168
C	-5. 4806834	1. 00742906	1. 4690291	H	-1. 9789644	3. 39958237	2. 89780618
C	-6. 8007867	0. 80330277	1. 06475574	H	-1. 236619	4. 94878005	2. 5764418
C	-7. 1069587	-0. 2196373	0. 16919996	H	-2. 6124696	4. 4093787	1. 58294049
C	-6. 0939494	-1. 0399725	-0. 3233219	H	1. 1553537	5. 92657553	0. 92927058
C	-4. 7732979	-0. 8382801	0. 07928407	H	0. 33328519	5. 97118299	-0. 6439313
C	-1. 6989227	4. 08453303	2. 08986619	H	-0. 6053667	6. 09983047	0. 82714301
C	0. 26210946	5. 60315604	0. 38520081	H	0. 34244458	3. 08798908	-2. 1607126
O	1. 01360208	3. 69952818	-1. 8003247	H	3. 55549917	2. 67757846	-1. 6438354
H	1. 87619377	1. 88150138	0. 86683327	H	1. 25456121	-5. 799888	-1. 5794698
O	3. 62502723	1. 90020868	-1. 0569588	H	2. 7983254	-5. 7796011	-2. 4961511
H	3. 12481613	-0. 2949804	0. 20414697	H	2. 66555481	-6. 6986552	-0. 9837922
H	0. 76172574	-0. 980005	-1. 6188978	H	0. 83735166	-3. 4574813	-2. 3278346
C	2. 79072078	-4. 5806093	-0. 7232086	H	5. 60292589	-2. 4216095	-2. 6656643
O	3. 39313462	-4. 7092186	0. 34701579	H	4. 93116262	-4. 02459	-2. 3635072
C	2. 34433759	-5. 7907863	-1. 50237	H	4. 17916864	-2. 9607859	-3. 5657952
O	1. 77187618	-3. 2718066	-2. 5595183	H	-0. 1512677	-3. 0999228	0. 55151891
C	4. 66734303	-2. 9859959	-2. 5859673	H	0. 81273285	-0. 2436541	4. 29731847
H	-0. 7313223	1. 50542675	2. 05621356	H	0. 62177484	-1. 9902647	4. 54221566
O	0. 25279033	-3. 1824376	-0. 3419627	H	2. 11294468	-1. 3776012	3. 79262121

### conformer 3a\_3

C	-0. 4456091	3. 35257019	0. 64870403	O	0. 48555043	-0. 6075552	1. 19958494
C	1. 38258915	1. 53892696	-0. 6391311	O	-1. 0424732	-2. 2219692	1. 750711
C	1. 45120406	3. 04147815	-0. 9784713	C	-0. 1121883	-1. 4852902	2. 04902975
C	0. 56901835	3. 87766587	-0. 0777713	C	0. 54282557	-1. 4349959	3. 3936645
C	-0. 0710625	-0. 4774947	-0. 1337153	H	2. 48773791	3. 36506433	-0. 8186122
C	0. 7612414	-1. 3276203	-1. 1300793	H	-1. 1001209	-0. 8479207	-0. 1535576
C	2. 2038724	-0. 8104761	-1. 2503765	H	1. 94194702	0. 84694099	-2. 6338939
C	2. 24473862	0. 69123766	-1. 5932071	H	1. 15859241	-2. 9941617	0. 23428964
C	0. 75846653	-2. 831991	-0. 7729882	H	3. 55128588	-3. 2582288	-1. 0413927

C	1. 56112421	-3. 6850717	-1. 7867762	H	4. 0145736	-1. 2717836	-2. 3586837
C	2. 99163971	-3. 1299035	-1. 9784115	H	2. 5374917	-1. 4617524	-3. 2943578
C	2. 9783745	-1. 6272055	-2. 302405	H	-2. 8261999	2. 79809707	-0. 0515766
C	-0. 0663992	1. 03298607	-0. 4966932	H	-2. 8635944	1. 69010479	-2. 1188799
C	-0. 8968807	1. 88828402	0. 52305344	H	-4. 2431551	0. 75248605	0. 19406526
C	-2. 3613977	1. 80645202	-0. 0114976	H	-2. 8861557	-0. 1563932	0. 78765655
N	-2. 2165723	1. 40443396	-1. 3916061	H	-2. 68378	-0. 3518797	3. 13574925
C	-0. 905446	1. 2138853	-1. 7450058	H	-3. 2204149	0. 42553835	5. 41192353
O	-0. 4997264	1. 1890917	-2. 8950441	H	-4. 509913	2. 51641149	5. 74783316
C	-3. 3016063	0. 85534257	0. 75120204	H	-5. 2745293	3. 82855709	3. 78789745
C	-3. 6435974	1. 31978219	2. 1461239	H	-4. 745159	3. 07311292	1. 50247554
C	-3. 2340219	0. 57729659	3. 26172717	H	-1. 4211904	3. 5205729	2. 56183127
C	-3. 5408621	1. 00944257	4. 55283415	H	-0. 6156215	4. 98905776	2. 08330594
C	-4. 2678641	2. 18254054	4. 74215331	H	-2. 1354595	4. 53555916	1. 28778353
C	-4. 6965718	2. 91966185	3. 640679	H	1. 8857729	5. 46458811	0. 52801616
C	-4. 3910537	2. 48856985	2. 34885149	H	1. 14280282	5. 70487407	-1. 0657188
C	-1. 1965827	4. 14860374	1. 69348056	H	0. 19473211	5. 98385856	0. 37528546
C	0. 96507196	5. 335576	-0. 0498316	H	0. 63105742	2. 66021806	-2. 7494974
O	1. 13928066	3. 37598634	-2. 3253117	H	4. 02672975	1. 01445341	-2. 3355803
H	1. 84758649	1. 45063919	0. 35672697	H	1. 37525367	-6. 3088632	-2. 9521637
O	3. 59831183	1. 13546386	-1. 4692312	H	1. 11364778	-7. 1710418	-1. 4230636
H	2. 71910241	-0. 9542897	-0. 2894408	H	-0. 1166317	-6. 0250722	-1. 9942111
H	0. 27305633	-1. 2267801	-2. 109378	H	-0. 0854657	-3. 6754658	-2. 8038043
C	1. 6488071	-5. 1137587	-1. 1983065	H	4. 7846353	-3. 4834078	-3. 1591671
O	2. 25388047	-5. 3456957	-0. 1472428	H	3. 84192814	-4. 9427802	-2. 852073
C	0. 95662466	-6. 2235823	-1. 9465062	H	3. 28537558	-3. 764741	-4. 0541196
O	0. 86678818	-3. 6519348	-3. 0370997	H	-0. 9817606	-3. 1369656	0. 08842685
C	3. 76459095	-3. 8742078	-3. 0756544	H	0. 02245325	-2. 113736	4. 07529262
H	-0. 8212718	1. 46009647	1. 52894484	H	1. 58518299	-1. 7517909	3. 30934081
O	-0. 6034992	-3. 2979508	-0. 8056034	H	0. 47889167	-0. 4217511	3. 79849471

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C	-0. 7803421	3. 37396479	1. 2145722	O	0. 33520819	-0. 5568187	1. 82783782
C	1. 49985749	1. 79481875	0. 41644758	O	-1. 1158125	-2. 3296179	1. 8247405
C	1. 51904008	3. 31927192	0. 18794564	C	-0. 3834054	-1. 5503419	2. 4188998
C	0. 33877834	4. 02463961	0. 8196124	C	-0. 1266574	-1. 5705164	3. 89314141
C	0. 15952446	-0. 3620427	0. 40135945	H	2. 42721957	3. 70776528	0. 66670966
C	1. 30605996	-1. 0656677	-0. 373647	H	-0. 7843882	-0. 8073143	0. 07332015
C	2. 67120089	-0. 4301106	-0. 0682889	H	2. 62154222	1. 29650256	-1. 3883084
C	2. 65738174	1. 09039575	-0. 3130556	H	1. 47712775	-2. 7993802	0. 95297947
C	1. 35169287	-2. 5892523	-0. 1152248	H	4. 14089185	-2. 7726108	0. 37544673
C	2. 4771251	-3. 29545	-0. 9119764	H	4. 74852277	-0. 6594296	-0. 6599173
C	3. 84581815	-2. 6171935	-0. 6716576	H	3. 60290158	-0. 8950542	-1. 9732786
C	3. 77509641	-1. 1001477	-0. 9083518	H	-2. 8339617	2. 6363529	-0. 0686263
C	0. 12001816	1. 16994039	0. 13631656	H	-2. 25623	1. 63699421	-2. 1088362
C	-1. 0210111	1. 8836343	0. 93852485	H	-2. 806086	-0. 3623547	0. 60611871
C	-2. 2874011	1. 69341253	0. 0510094	H	-3. 5185152	0. 86216698	1. 63004177

N	-1. 7627728	1. 38595332	-1. 2581159	H	-5. 5033072	2. 20009165	0. 83697664
C	-0. 3905372	1. 37088839	-1. 2761794	H	-7. 5699663	2. 10878564	-0. 5084453
O	0. 29190822	1. 49119941	-2. 2791036	H	-7. 8039587	0. 44099742	-2. 3283026
C	-3. 2615924	0. 63214681	0. 58785358	H	-5. 9568084	-1. 1445792	-2. 8025401
C	-4. 5404005	0. 56840249	-0. 2152961	H	-3. 8805066	-1. 0695613	-1. 4702944
C	-5. 5889819	1. 4618336	0. 0430562	H	-2. 3946624	3. 33478858	2. 64674753
C	-6. 7595019	1. 41463596	-0. 7155013	H	-1. 4964441	4. 83371754	2. 66120924
C	-6. 8916462	0. 47768492	-1. 7386375	H	-2. 6208258	4. 49465594	1. 32299374
C	-5. 8538682	-0. 4133171	-2. 0048377	H	1. 30940261	5. 69092498	1. 76870656
C	-4. 6825395	-0. 3684546	-1. 2479188	H	0. 91375322	5. 95613519	0. 05834798
C	-1. 8815584	4. 05329329	1. 9980545	H	-0. 3505744	6. 05292264	1. 26411568
C	0. 55823311	5. 5096825	0. 9932177	H	1. 15641723	3. 06155421	-1. 7476078
O	1. 59813589	3. 7163168	-1. 1754699	H	4. 49642395	1. 70592819	-0. 5615964
H	1. 68913993	1. 66691475	1. 49511554	H	2. 87161908	-5. 8263893	-2. 2212362
O	3. 88369938	1. 62532792	0. 19167777	H	2. 2896314	-6. 8235769	-0. 8733409
H	2. 9210582	-0. 6038691	0. 98854402	H	1. 15516805	-5. 7374157	-1. 7017866
H	1. 09012221	-0. 9254665	-1. 4421252	H	1. 17304099	-3. 3341843	-2. 3413936
C	2. 53986963	-4. 7542942	-0. 3992058	H	5. 91653832	-2. 736882	-1. 328653
O	2. 85553387	-5. 0191724	0. 76478231	H	5. 07180101	-4. 2852546	-1. 3696659
C	2. 18908067	-5. 8534723	-1. 3684314	H	4. 7492866	-3. 0664411	-2. 6158229
O	2. 14624066	-3. 2199563	-2. 3017625	H	-0. 5195803	-3. 0952678	0. 2110865
C	4. 95465472	-3. 2121715	-1. 5501719	H	-0. 7564274	-2. 3331214	4. 35994038
H	-1. 1573925	1. 41103741	1. 91886148	H	0. 92148083	-1. 8147881	4. 08218787
O	0. 100911	-3. 1549229	-0. 5505322	H	-0. 3804941	-0. 5998173	4. 3266447

### conformer 3a\_5

C	-0. 8690199	3. 22548092	0. 68874908	O	0. 61689649	-0. 4835653	1. 13148777
C	1. 04182649	1. 71194133	-0. 8102237	O	-0. 6202195	-2. 2808153	1. 83004129
C	0. 83794601	3. 20077805	-1. 148702	C	0. 19750453	-1. 3975189	2. 0483594
C	0. 00788154	3. 89504435	-0. 0946021	C	0. 89631618	-1. 1817794	3. 35395725
C	-0. 0343499	-0. 4930134	-0. 1672364	H	1. 81791627	3. 69047597	-1. 2038803
C	0. 86973428	-1. 2402233	-1. 1850519	H	-0. 9927652	-1. 0190669	-0. 1092726
C	2. 18908237	-0. 48786	-1. 4318462	H	1. 51236807	1. 02398416	-2. 8292653
C	1. 94146685	0. 98339856	-1. 8243297	H	1. 63957501	-2. 7384067	0. 21300029
C	1. 1566741	-2. 7017354	-0. 7701215	H	3. 96392528	-2. 6368759	-1. 2351176
C	2. 03658946	-3. 4524808	-1. 8025018	H	3. 96444213	-0. 6720582	-2. 6676201
C	3. 32589814	-2. 6617843	-2. 1295339	H	2. 48192791	-1. 174087	-3. 4701996
C	3. 0181051	-1. 2050336	-2. 5124869	H	-3. 2065159	2. 45796306	0. 01793834
C	-0. 2962899	0. 98712595	-0. 5679805	H	-3. 2363888	1. 27194823	-2. 0617485
C	-1. 1765627	1. 73149241	0. 50137184	H	-4. 3957566	0. 27323749	0. 29301653
C	-2. 6424308	1. 51838688	0. 02158961	H	-2. 9198403	-0. 508034	0. 7771992
N	-2. 5152842	1. 13694416	-1. 3621464	H	-2. 6018431	-0. 7854479	3. 09978054
C	-1. 2190738	0. 97694323	-1. 7780201	H	-3. 0890103	-0. 1492752	5. 43067429
O	-0. 9027093	0. 76682095	-2. 937242	H	-4. 5330917	1. 80707257	5. 9173418
C	-3. 4394699	0. 4559781	0. 80267348	H	-5. 5029637	3. 12458873	4. 05395817
C	-3. 7477463	0. 83544145	2. 23051161	H	-5. 0254416	2. 50933709	1. 71538949
C	-3. 2216155	0. 08719713	3. 2923731	H	-1. 6653363	3. 19011107	2. 68930561

C	-3. 4993513	0. 43917396	4. 61402512	H	-1. 0995755	4. 76850377	2. 21463184
C	-4. 3131231	1. 53614518	4. 88797618	H	-2. 6201393	4. 1537662	1. 53887703
C	-4. 8573858	2. 27630932	3. 84081233	H	1. 21753317	5. 58313	0. 45059583
C	-4. 5812222	1. 92514153	2. 51851236	H	0. 27060811	5. 81278021	-1. 0329722
C	-1. 6056411	3. 87565769	1. 83754418	H	-0. 523145	5. 92404378	0. 52131233
C	0. 25252314	5. 38246426	-0. 0255126	H	0. 71230971	3. 01815841	-3. 0878084
O	0. 17395609	3. 41655654	-2. 3818272	H	3. 69853219	1. 49130202	-1. 089939
H	1. 59608801	1. 70812871	0. 14275366	H	0. 80731966	-6. 0627876	-1. 763921
O	3. 19450482	1. 66834291	-1. 9032183	H	2. 25841274	-6. 1364093	-2. 8187821
H	2. 78555451	-0. 4994789	-0. 5080371	H	2. 26150037	-6. 932138	-1. 2322814
H	0. 31133099	-1. 281555	-2. 1295861	H	0. 35012899	-3. 7851681	-2. 6939411
C	2. 42600089	-4. 8024014	-1. 1541318	H	5. 06759185	-2. 7558764	-3. 4299547
O	3. 13464115	-4. 8544115	-0. 1439262	H	4. 42586617	-4. 3402431	-2. 9927847
C	1. 89952931	-6. 0632541	-1. 7893563	H	3. 58549184	-3. 3442622	-4. 1946402
O	1. 26889886	-3. 6237469	-2. 9965714	H	-0. 4635471	-3. 2409178	0. 20957872
C	4. 14263543	-3. 3154551	-3. 2524209	H	0. 7019425	-0. 1683631	3. 71436667
H	-1. 0249341	1. 27712029	1. 48682941	H	0. 51142986	-1. 8911813	4. 09200002
O	-0. 0978083	-3. 4032306	-0. 6889144	H	1. 96919113	-1. 3484748	3. 23112162

conformer 3a\_6

C	0. 03542248	3. 42127249	0. 93472667	O	0. 37447288	-0. 6955741	1. 78433588
C	1. 85617469	1. 28083321	0. 21953857	O	-1. 8264953	-0. 7262652	2. 4381781
C	2. 24387741	2. 74243672	-0. 060941	C	-0. 6366748	-0. 8530415	2. 6782109
C	1. 27290079	3. 75350111	0. 49998045	C	-0. 0750421	-1. 1742621	4. 02882512
C	0. 04352648	-0. 4774669	0. 3843875	H	3. 20783154	2. 91606586	0. 43543897
C	0. 92524654	-1. 4635731	-0. 4318454	H	-1. 0051832	-0. 7212862	0. 19252844
C	2. 42242786	-1. 1802818	-0. 2124911	H	2. 72156891	0. 43453884	-1. 6144
C	2. 76853696	0. 2857505	-0. 5307047	H	0. 73289901	-3. 0918687	0. 99124934
C	0. 60876237	-2. 9354548	-0. 0853831	H	3. 28082273	-3. 7887429	0. 32159326
C	1. 48355518	-3. 9356047	-0. 8756969	H	4. 34603703	-1. 9440027	-0. 8664987
C	2. 9878362	-3. 6166979	-0. 722572	H	3. 11197766	-1. 9542911	-2. 1194901
C	3. 28287633	-2. 1423084	-1. 0512684	H	-2. 1481416	3. 14094798	-0. 2846779
C	0. 35112487	1. 00223936	0. 00816273	H	-1. 8684781	1. 92706989	-2. 2652829
C	-0. 5683656	2. 01896003	0. 76284964	H	-2. 935955	0. 26104635	0. 38809844
C	-1. 8584647	2. 09738806	-0. 1134006	H	-3. 2072546	1. 58719898	1. 51009254
N	-1. 4426779	1. 60359187	-1. 4031444	H	-4. 7543352	3. 46800133	0. 90486762
C	-0. 119409	1. 24908361	-1. 4156023	H	-6. 8072792	4. 06789586	-0. 3281968
O	0. 5554867	1. 17138874	-2. 4280546	H	-7. 5847658	2. 66325059	-2. 2182956
C	-3. 0735365	1. 34450131	0. 44857172	H	-6. 2996314	0. 64578912	-2. 8746774
C	-4. 3481087	1. 70423368	-0. 2853945	H	-4. 243265	0. 02975443	-1. 6540444
C	-5. 0809775	2. 84270617	0. 07732611	H	-1. 5351923	3. 87421844	2. 34653558
C	-6. 241937	3. 18574934	-0. 6171264	H	-0. 283771	5. 09300279	2. 2902724
C	-6. 6793315	2. 39677333	-1. 6794952	H	-1. 4604874	4. 97736682	0. 95859343
C	-5. 9572584	1. 2633927	-2. 0483887	H	2. 62700015	5. 20042728	1. 33338125
C	-4. 7962088	0. 91822619	-1. 3556983	H	2. 28099818	5. 43523017	-0. 3922579
C	-0. 8569898	4. 40079049	1. 66600941	H	1. 09439328	5. 91360136	0. 80147723
C	1. 84308161	5. 15153837	0. 57075945	H	1. 7491175	2. 62888039	-1. 9705643

O	2.46997042	3.01543623	-1.4365788	H	4.44829127	1.26111726	-0.6710986
H	2.05495459	1.14248723	1.29467857	H	1.98488197	-5.2953765	1.54392505
O	4.12492854	0.50970575	-0.1375949	H	0.19574094	-5.3674452	1.45080051
H	2.67893862	-1.3675066	0.84047161	H	1.17636991	-6.816232	1.14054939
H	0.68368264	-1.3146785	-1.4928062	H	1.21737233	-4.7048787	-2.6537019
C	1.18558062	-5.3899964	-0.4468572	H	4.93717637	-4.2599509	-1.4439213
O	1.01384517	-6.2620583	-1.3068525	H	3.75703774	-5.5651571	-1.3453576
C	1.1314685	-5.7298978	1.01957011	H	3.66111159	-4.3808992	-2.662027
O	1.10202867	-3.8119374	-2.2628464	H	-0.807663	-3.2707368	-1.3719343
C	3.88089107	-4.5074429	-1.5969024	H	-0.8953243	-1.3670518	4.72607666
H	-0.7995513	1.66552447	1.77240831	H	0.54449574	-2.0728111	3.9685135
O	-0.7682321	-3.1806709	-0.3959582	H	0.50926593	-0.3274649	4.39704619
conformer 3a_7							
C	-0.4921893	3.19867051	0.81474943	O	0.60355208	-0.8158366	1.07723776
C	1.36268672	1.46111694	-0.5690205	O	-1.2309424	-1.8056883	2.04402283
C	1.44971421	2.98256602	-0.7703068	C	-0.0662697	-1.4439868	2.07835598
C	0.52657956	3.7683719	0.12934756	C	0.83667006	-1.6160036	3.26080309
C	-0.0811233	-0.5837499	-0.1843164	H	2.47464456	3.27899613	-0.510539
C	0.71009195	-1.3454368	-1.2852712	H	-1.1028671	-0.9748016	-0.1571519
C	2.15842453	-0.8327087	-1.3807631	H	1.85938081	0.90126622	-2.63406
C	2.19615341	0.68894078	-1.61404	H	1.08856768	-3.0932067	-0.0561575
C	0.69716683	-2.8721531	-1.0543424	H	3.48162214	-3.2961643	-1.3352667
C	1.49753005	-3.6475606	-2.1258507	H	3.96425756	-1.2175032	-2.5214026
C	2.93433014	-3.0978015	-2.2663221	H	2.48578758	-1.3400151	-3.465636
C	2.9275318	-1.575137	-2.4882741	H	-2.8390502	2.68469541	0.04402219
C	-0.0909653	0.95056138	-0.450893	H	-2.9007105	1.64132691	-2.0309916
C	-0.9288623	1.7372552	0.6154216	H	-4.2593135	0.5890147	0.19590404
C	-2.393587	1.68329287	0.06932209	H	-2.9243577	-0.2542264	0.92037038
N	-2.2506103	1.3216393	-1.3211148	H	-2.752839	-0.2116188	3.3111501
C	-0.9331478	1.21555068	-1.6834481	H	-3.462248	0.69400075	5.48930231
O	-0.5311347	1.33911761	-2.8278477	H	-4.938136	2.68483913	5.59694701
C	-3.3591993	0.74233169	0.80737366	H	-5.7138198	3.76479842	3.50334426
C	-3.8064412	1.27928926	2.146666	H	-5.0133826	2.87532581	1.3130068
C	-3.387927	0.67061865	3.33633593	H	-1.51368	3.26958521	2.71122234
C	-3.7909697	1.17739659	4.57295939	H	-0.6957363	4.75846583	2.32778307
C	-4.6216066	2.2940484	4.63353788	H	-2.1974975	4.35042672	1.47497399
C	-5.0564626	2.90038813	3.45737595	H	1.80433863	5.348995	0.83058877
C	-4.6549689	2.39393142	2.22025763	H	1.08831385	5.64662579	-0.7659836
C	-1.2688502	3.9407	1.88170065	H	0.10790757	5.8466789	0.6662152
C	0.89752417	5.23025161	0.22905911	H	0.51789874	2.90531848	-2.512547
O	1.26559606	3.39380827	-2.1173283	H	3.62784946	1.94032959	-2.0383584
H	1.84105648	1.28284175	0.40775799	H	0.995912	-5.4550081	0.24086946
O	3.55955001	1.1106016	-1.5280631	H	2.07575032	-6.6924886	-0.4369367
H	2.68362924	-1.045269	-0.4381839	H	2.72968678	-5.0965031	-0.0433325
H	0.20139168	-1.1547613	-2.2399144	H	0.93461932	-4.3072466	-3.8784383
C	1.51734422	-5.1610118	-1.8141914	H	4.73623628	-3.3525687	-3.4590077

O	1. 28115613	-5. 9770927	-2. 7130381	H	3. 81433232	-4. 8398298	-3. 2497061
C	1. 84973915	-5. 6222671	-0. 419378	H	3. 24455967	-3. 5950396	-4. 3771558
O	0. 7919823	-3. 4771319	-3. 3743831	H	-0. 9164179	-3. 3280912	-2. 0372774
C	3. 72089906	-3. 7607427	-3. 4053265	H	0. 30235874	-2. 1527829	4. 04986361
H	-0. 8539817	1. 25265379	1. 59510163	H	1. 71358771	-2. 2025222	2. 97507673
O	-0. 6639907	-3. 3158047	-1. 0898193	H	1. 13537448	-0. 6368725	3. 64335894
conformer <b>3a_8</b>							
C	-1. 6938991	2. 78961699	1. 53006034	O	0. 0114467	-0. 8668127	1. 72109234
C	0. 96243394	1. 84393259	0. 99096857	O	-1. 0412913	-2. 8099062	1. 11729966
C	0. 69220244	3. 35731004	1. 01971241	C	-0. 6281976	-2. 0407699	1. 9742273
C	-0. 6768797	3. 68013622	1. 57710221	C	-0. 7261222	-2. 270499	3. 44984365
C	0. 13813915	-0. 4589756	0. 33311185	H	1. 45562363	3. 83920403	1. 64256453
C	1. 55587655	-0. 8246544	-0. 1873766	H	-0. 5973202	-0. 9863657	-0. 2837235
C	2. 65257087	-0. 0058327	0. 51673858	H	2. 50336016	1. 89289142	-0. 5561229
C	2. 36721653	1. 5105148	0. 46097968	H	1. 77725965	-2. 6810177	0. 9529325
C	1. 86042189	-2. 336857	-0. 0842233	H	4. 44610971	-2. 0776656	1. 06981998
C	3. 26245394	-2. 7008761	-0. 6357268	H	4. 81033008	0. 23658691	0. 43289234
C	4. 36627163	-1. 8263917	0. 00298028	H	4. 05683183	-0. 0015732	-1. 1386943
C	4. 03022941	-0. 328875	-0. 0910082	H	-3. 1753597	2. 22177787	-0. 4487016
C	-0. 149611	1. 0695388	0. 26000266	H	-1. 9596861	1. 66766582	-2. 4562815
C	-1. 5673587	1. 42642176	0. 83641115	H	-2. 7852164	-0. 8317626	-0. 427749
C	-2. 5252919	1. 34149312	-0. 3819462	H	-3. 9357024	0. 00807633	0. 58866373
N	-1. 6561254	1. 40715459	-1. 5246128	H	-5. 8709303	1. 26599846	-0. 4317737
C	-0. 3188334	1. 40576414	-1. 2175996	H	-7. 5042827	1. 26064317	-2. 2820962
O	0. 55942887	1. 53047862	-2. 0542675	H	-6. 996697	0. 06345391	-4. 3935361
C	-3. 3976858	0. 07425872	-0. 3659754	H	-4. 8405861	-1. 1348938	-4. 6521302
C	-4. 4131168	0. 05787173	-1. 4854216	H	-3. 1929749	-1. 1410127	-2. 8147561
C	-5. 6328584	0. 73491844	-1. 3503464	H	-3. 4623253	2. 09221297	2. 55029824
C	-6. 559318	0. 73539916	-2. 3941462	H	-2. 9637994	3. 68722914	3. 05726287
C	-6. 2747019	0. 0629287	-3. 5811532	H	-3. 7380875	3. 47218683	1. 47031516
C	-5. 0635648	-0. 6107437	-3. 7262821	H	-0. 2287061	5. 07695962	3. 14396024
C	-4. 1357406	-0. 613211	-2. 6841278	H	-0. 3476052	5. 80800401	1. 53211041
C	-3. 0353711	3. 03243537	2. 18428599	H	-1. 806745	5. 36678568	2. 38894312
C	-0. 7780012	5. 05223754	2. 19733439	H	0. 63358543	4. 86944597	-0. 2110754
O	0. 77905738	3. 91284405	-0. 2825078	H	4. 11175291	2. 33508148	0. 75323835
H	0. 9474975	1. 52915547	2. 04730752	H	3. 77563397	-6. 1794426	-0. 9834674
O	3. 32200777	2. 17236033	1. 29965199	H	2. 6514816	-5. 1961997	-1. 9435609
H	2. 69356607	-0. 3013835	1. 57549065	H	4. 42244954	-4. 9227695	-2. 0570201
H	1. 57216943	-0. 5736835	-1. 2558387	H	2. 35111031	-2. 7450415	-2. 343109
C	3. 51375939	-4. 1826389	-0. 2666833	H	6. 50926092	-1. 4721399	-0. 1235976
O	3. 63315151	-4. 5477204	0. 90702186	H	6. 04065806	-3. 1228495	-0. 5344175
C	3. 59460686	-5. 1812575	-1. 3923755	H	5. 7576166	-1. 807633	-1. 6888215
O	3. 25188785	-2. 4900059	-2. 050741	H	0. 09734158	-3. 1809596	-0. 3205117
C	5. 74400785	-2. 0734029	-0. 6266495	H	-1. 2986489	-3. 1833325	3. 63700241
H	-1. 854261	0. 68895726	1. 59613765	H	0. 274591	-2. 3888547	3. 87240301
O	0. 89456287	-3. 0486647	-0. 8813556	H	-1. 2470604	-1. 433256	3. 92134345

Table S4. Cartesian coordinates for the low-energy optimized conformers of **4a** at B3LYP-D3(BJ)/6-311G\* level.

conformer <b>4a_1</b>							
C	-0.4174462	1.65888626	2.8225526	0	-1.3940816	1.1100732	-2.6798823
C	0.0690941	-0.937653	1.71579484	C	-1.9872739	0.62721707	-1.7247775
C	0.40638154	-0.6861839	3.19974221	C	-3.4728219	0.6404923	-1.5447052
C	-0.1629787	0.63776895	3.67279018	H	-0.0513332	-1.4859716	3.798564
C	0.06020865	-0.0435489	-0.6542114	H	0.46854396	0.74093906	-1.2997381
C	0.55630632	-1.4158712	-1.1837246	H	1.66482232	-2.3749978	1.31174278
C	0.15085353	-2.569239	-0.2479252	H	-1.0061682	-1.6864251	-2.694902
C	0.57751182	-2.3006999	1.21243416	H	-0.8014177	-4.3613602	-2.1747422
C	0.08771525	-1.701991	-2.62918	H	0.41891674	-4.7223021	-0.1115126
C	0.61533986	-3.0556572	-3.1676525	H	1.83280157	-3.862512	-0.7083959
C	0.28737676	-4.2141425	-2.1976577	H	1.30188766	3.27456707	1.86032001
C	0.73673666	-3.8983152	-0.7612826	H	3.19593662	2.16455712	0.86690803
C	0.50376905	0.23144447	0.81114377	H	1.7009479	4.09544413	-0.4739789
C	-0.0501575	1.60793022	1.33224099	H	0.59888177	2.91180419	-1.1121839
C	1.06875474	2.63707552	0.99995764	H	-1.5978811	3.65567575	-1.5635673
N	2.24243478	1.83182361	0.78415924	H	-3.4361077	5.26335577	-1.2301829
C	2.00645569	0.48135417	0.7883554	H	-3.2285017	7.06818341	0.45784522
O	2.89102433	-0.3516358	0.67772873	H	-1.1597016	7.26682179	1.81056766
C	0.79314134	3.52742713	-0.2271386	H	0.68956618	5.66699832	1.49696711
C	-0.3279602	4.51937628	-0.0348366	H	-1.8010194	3.27114703	2.46589977
C	-1.4946491	4.42920218	-0.8060477	H	-1.7323622	2.7983695	4.14054176
C	-2.536154	5.3404534	-0.6254529	H	-0.3871217	3.72341627	3.44510828
C	-2.4187915	6.35624181	0.32064451	H	-0.5969029	1.69473803	5.53836414
C	-1.2565791	6.46708785	1.08070011	H	-1.2618925	0.05505495	5.42300459
C	-0.2138244	5.55693177	0.90091782	H	0.47040159	0.3221267	5.70373861
C	-1.1146384	2.93104232	3.24835043	H	0.54814097	-4.1166365	1.94012005
C	-0.4075999	0.68725025	5.16080585	H	1.20061891	-2.2986138	-5.8862612
H	-1.0315259	-0.9918102	1.67977305	H	1.50102948	-4.060949	-5.7196269
O	0.00499126	-3.3156669	2.04545167	H	0.10128547	-3.4723461	-6.6385692
H	-0.9437445	-2.6756648	-0.2642125	H	2.19649147	-2.03118	-3.6127089
H	1.65241213	-1.3638326	-1.2123832	H	0.58001051	-5.8262518	-3.6430483
C	-0.099928	-3.3068276	-4.5168772	H	2.0101659	-5.4887394	-2.6514778
O	-1.3165492	-3.5095566	-4.5780296	H	0.62940927	-6.3496274	-1.958757
C	0.73734943	-3.2810794	-5.769553	H	-0.016432	0.08453374	-3.4485629
O	2.03431354	-2.9522095	-3.3170338	H	3.3873198	-1.5627876	4.32729157
C	0.9165101	-5.5420723	-2.6411184	H	1.85082155	-1.6798596	5.20770281
H	-0.9727708	1.86026882	0.79776037	H	2.12377911	-2.6544325	3.72898458
O	0.61200099	-0.6712176	-3.4874145	H	-3.9316413	1.20175639	-2.3635869
O	1.81274536	-0.6219165	3.42269085	H	-3.8564609	-0.3825072	-1.5606105
C	2.3076817	-1.6921483	4.21376122	H	-3.7267366	1.13333675	-0.6027302
O	-1.3917325	-0.0156686	-0.6851862				

conformer **4a\_2**

C	0.09666166	3.25313288	1.30584919	0	-0.745675	0.14286092	-3.3132352	
C	-1.0689724	0.66390269	1.72186931	C	-1.5614335	0.66533908	-2.5661479	
C	-0.7186354	1.53215152	2.94816472	C	-2.7421456	1.46818988	-3.0146251	
C	-0.3713825	2.95199165	2.53854671	H	-1.5983136	1.57339336	3.60553673	
C	-0.4175047	-0.1172166	-0.6011358	H	0.41912723	-0.1699859	-1.3064246	
C	-0.8395081	-1.567394	-0.2394722	H	-0.664336	-1.2799687	2.63310136	
C	-1.9094223	-1.5911189	0.86742543	H	-2.161435	-1.8834979	-1.9570718	
C	-1.4750144	-0.7707105	2.10267552	H	-3.6666408	-3.4371905	-0.287248	
C	-1.31247	-2.3760147	-1.4694967	H	-3.0247593	-3.0583822	2.02008727	
C	-1.7009572	-3.8323931	-1.110699	H	-1.3542923	-3.5138159	1.7091775	
C	-2.7174448	-3.873792	0.05342925	H	2.46778541	2.92628062	0.46945021	
C	-2.2379361	-3.0450148	1.25658214	H	3.34041615	0.71145763	0.76865544	
C	0.02892244	0.70438151	0.64382732	H	1.79097083	1.38687032	-2.1092015	
C	0.40249964	2.17913801	0.25683522	H	1.73847191	3.13117026	-1.9761912	
C	1.92265852	2.13411024	-0.0573743	H	3.84664846	4.4458712	-1.5071154	
N	2.37552967	0.89624672	0.51775554	H	6.27105386	4.5524371	-1.9568208	
C	1.37644116	0.13984734	1.07541372	H	7.52189037	2.49754196	-2.5586467	
O	1.5789628	-0.8854562	1.70430595	H	6.3366288	0.32402504	-2.7101012	
C	2.21962114	2.23485872	-1.5635143	H	3.91285238	0.19543438	-2.2627984	
C	3.69992403	2.31282529	-1.8581831	H	0.15398025	4.76218539	-0.2342074	
C	4.37950321	3.53555934	-1.7716696	H	-0.313406	5.39289725	1.32539469	
C	5.75056119	3.60063597	-2.0242216	H	1.38602595	4.95812755	1.02670683	
C	6.45419398	2.44615127	-2.3622324	H	-1.6594608	4.08627246	3.82831377	
C	5.78819714	1.22512674	-2.4477945	H	-0.1075771	3.63165418	4.56144786	
C	4.41739704	1.15735156	-2.1961193	H	-0.1694544	4.94793461	3.41173528	
C	0.34744186	4.6691773	0.84013829	H	-2.6369502	-1.5334087	3.47917579	
C	-0.5887082	3.96433942	3.63588075	H	-1.4923943	-6.4014166	-2.4014385	
H	-1.9703224	1.13113938	1.29188452	H	-2.1911464	-5.8808562	-3.9477211	
O	-2.585628	-0.6856846	3.00320336	H	-0.6420381	-5.1921325	-3.4204205	
H	-2.8373841	-1.1474603	0.47787197	H	0.19566301	-4.1699723	-1.3015001	
H	0.05938524	-2.0701689	0.1404844	H	-3.7707544	-5.3037445	1.31049422	
C	-2.3530977	-4.4426649	-2.3745759	H	-3.4077149	-5.9157452	-0.304069	
O	-3.4345041	-4.033309	-2.8082011	H	-2.1212094	-5.7998015	0.90997162	
C	-1.6149526	-5.5522408	-3.0780309	H	-0.2544421	-1.627892	-2.9517228	
O	-0.5120029	-4.5276189	-0.7241377	H	-0.6004774	-0.2719418	4.90762353	
C	-3.0160374	-5.3064232	0.51639998	H	1.04043439	0.18590912	5.40172208	
H	-0.1589109	2.48142471	-0.6357166	H	-0.2786245	1.36122606	5.57112871	
O	-0.2235959	-2.448132	-2.4093951	H	-2.7067396	1.5883586	-4.1010792	
O	0.41781008	1.02772219	3.64485438	H	-3.6653147	0.94850973	-2.7469174	
C	0.11572441	0.55283107	4.94838823	H	-2.7113806	2.46001027	-2.5563406	
O	-1.5408766	0.57456305	-1.2084945					

conformer 4a_3							
C	0.26776495	2.4131383	2.23569129	O	-0.6179342	0.74514118	-3.0544785
C	-0.4103719	-0.3411895	1.88926408	C	-1.403618	0.85893404	-2.123701
C	-0.0421982	0.15833839	3.30225593	C	-2.7294448	1.54844391	-2.2027405

C	0. 0103012	1. 67347642	3. 33905461	H	-0. 8235153	-0. 1709153	4. 00143994
C	0. 0788233	-0. 2628736	-0. 5985256	H	0. 82097411	0. 05332154	-1. 3388906
C	-0. 0719791	-1. 8053837	-0. 6885078	H	0. 36003581	-2. 3710101	2. 10926342
C	-0. 996101	-2. 348957	0. 41408599	H	-1. 5257565	-1. 8247014	-2. 3248131
C	-0. 5672804	-1. 8696881	1. 81752941	H	-2. 5702236	-4. 0632659	-1. 1308385
C	-0. 5603779	-2. 2802472	-2. 0765165	H	-1. 7175606	-4. 2653265	1. 13673471
C	-0. 6819883	-3. 8232949	-2. 1692764	H	-0. 0495244	-4. 2953953	0. 57922331
C	-1. 5301813	-4. 3966314	-1. 0089102	H	2. 56687705	2. 81048006	1. 20853594
C	-1. 0442459	-3. 8866152	0. 35771952	H	3. 80526046	0. 77406393	0. 84007486
C	0. 53809121	0. 21605851	0. 80903239	H	3. 38858824	2. 67844113	-1. 1532171
C	0. 63663189	1. 78460025	0. 8828338	H	1. 90775913	1. 92193405	-1. 6613024
C	2. 11011689	2. 10835057	0. 50192958	H	0. 304127	3. 33704378	-2. 661238
N	2. 80768712	0. 86278552	0. 68513737	H	-0. 6486685	5. 5774698	-3. 0456945
C	1. 99384269	-0. 2022829	0. 9726303	H	0. 24222505	7. 54214612	-1. 8224536
O	2. 4167593	-1. 3216289	1. 20859202	H	2. 10758699	7. 25781247	-0. 2135405
C	2. 31294971	2. 63276789	-0. 9328236	H	3. 07263022	5. 02565407	0. 18988353
C	1. 73730718	4. 00591373	-1. 1798642	H	-0. 2459365	4. 27403038	1. 28019185
C	0. 69588706	4. 18286092	-2. 1009155	H	-0. 4522318	4. 32269223	3. 00922359
C	0. 15681526	5. 45016386	-2. 3269774	H	1. 1866732	4. 36172664	2. 33045499
C	0. 65902146	6. 55461393	-1. 6424066	H	-1. 2982922	2. 14508253	4. 97457715
C	1. 70664034	6. 39430647	-0. 7382624	H	0. 3534551	1. 71487542	5. 46174366
C	2. 24733346	5. 12767993	-0. 5115912	H	0. 03605423	3. 30078319	4. 79995715
C	0. 19108451	3. 92288759	2. 22080373	H	-2. 4362884	-1. 9990271	2. 43173571
C	-0. 2406889	2. 24759995	4. 71159471	H	-0. 2944412	-5. 839029	-4. 1886409
H	-1. 412864	0. 07323366	1. 69199559	H	-1. 2315147	-5. 0139746	-5. 4501327
O	-1. 5647856	-2. 2739611	2. 76449939	H	0. 26728481	-4. 2697754	-4. 8563295
H	-2. 0187709	-1. 9888915	0. 22932503	H	1. 20599742	-3. 7387543	-2. 5918199
H	0. 92973095	-2. 2299826	-0. 543811	H	-2. 1865133	-6. 3037605	-0. 1932492
C	-1. 3906978	-4. 1313068	-3. 5098539	H	-1. 9326243	-6. 3317873	-1. 9391386
O	-2. 5572901	-3. 7843909	-3. 7202323	H	-0. 5412913	-6. 3438165	-0. 8406001
C	-0. 6040934	-4. 8619544	-4. 5672078	H	0. 18568573	-0. 9438542	-3. 3147978
O	0. 63538795	-4. 3764542	-2. 1128068	H	0. 63132697	-2. 1411946	4. 46237667
C	-1. 5432751	-5. 9311788	-0. 9979954	H	2. 21226259	-1. 5513096	5. 00854415
H	-0. 0531362	2. 23144601	0. 15819882	H	0. 73582775	-0. 8154609	5. 66270602
O	0. 40471366	-1. 8687661	-3. 0624327	H	-2. 7728401	2. 3522756	-1. 4633754
O	1. 24119737	-0. 2936651	3. 72028655	H	-2. 8508869	1. 98640668	-3. 1974963
C	1. 18865204	-1. 2523065	4. 76756069	H	-3. 5323297	0. 82643807	-2. 0353179
O	-1. 2056093	0. 3585902	-0. 8739641				

conformer 4a_4							
C	1. 89832661	2. 84188585	1. 23008936	0	-1. 2172701	0. 54242292	-2. 8882608
C	0. 13978037	0. 73398901	1. 98860776	C	-1. 3905054	1. 32450944	-1. 9643606
C	1. 03825406	1. 36642598	3. 06553093	C	-2. 1299353	2. 62095959	-2. 0742548
C	1. 62871518	2. 66494839	2. 54426196	H	0. 429166	1. 59626119	3. 95034921
C	-0. 103296	-0. 0015457	-0. 4151422	H	0. 45313211	-0. 2611941	-1. 3233191
C	-0. 9405693	-1. 2334634	0. 04334333	H	0. 01819939	-1. 2915955	2. 80016583

C	-1.6354828	-0.9914827	1.39934128	H	-2.6789005	-0.9076626	-1.2489245
C	-0.6512316	-0.4879259	2.48105867	H	-4.1670985	-1.9981563	0.76528164
C	-1.9675861	-1.7064074	-1.0106975	H	-2.872791	-2.088733	2.81112866
C	-2.750211	-2.9654727	-0.5600338	H	-1.611833	-3.0589932	2.0610516
C	-3.3842331	-2.7660887	0.83573801	H	3.87495077	1.45898962	0.62461996
C	-2.3529576	-2.2733653	1.86367296	H	3.88842852	-0.8576696	0.17722055
C	0.90865576	0.45427905	0.68284738	H	3.94957163	2.64445542	-1.4595745
C	1.74609456	1.70122826	0.21590747	H	4.71254946	1.08454532	-1.6343152
C	3.14934693	1.13942509	-0.137229	H	3.25510581	-0.8624893	-2.6864111
N	3.06612735	-0.2819108	0.03757006	H	1.88670994	-1.3206706	-4.6837556
C	1.96923982	-0.6360484	0.7831792	H	0.75453702	0.53342824	-5.876504
O	1.87233638	-1.716957	1.34122468	H	0.99525965	2.86146701	-5.0625265
C	3.73649628	1.56864784	-1.4931348	H	2.35086075	3.34418237	-3.058836
C	2.8967972	1.27454903	-2.7130855	H	1.9406637	4.32009929	-0.3334203
C	2.76279346	-0.0351427	-3.1926514	H	2.14998404	5.0076341	1.2581185
C	1.99360371	-0.2997846	-4.3262228	H	3.48587143	4.1042469	0.51415551
C	1.35896068	0.74245405	-4.9978837	H	0.9345998	4.0936007	3.98634934
C	1.49085158	2.0501645	-4.5362524	H	2.4084399	3.22657945	4.46408727
C	2.2558441	2.31596717	-3.3999646	H	2.50799661	4.52100487	3.29064925
C	2.40018059	4.13854885	0.64430095	H	-1.6705202	-0.8993645	4.10038329
C	1.88328763	3.68794728	3.62073491	H	-4.5890834	-4.3796517	-3.2260656
H	-0.6185915	1.50538693	1.77406871	H	-2.8207868	-4.26527	-3.1251488
O	-1.403352	-0.0884421	3.63285519	H	-3.7317741	-5.2914568	-1.9675875
H	-2.4101832	-0.2218476	1.26734133	H	-1.2129502	-3.9144835	-1.25186
H	-0.2302049	-2.0605261	0.16760805	H	-4.5281975	-3.8591092	2.32940977
C	-3.8735836	-3.1881705	-1.6018147	H	-4.8228868	-4.4030688	0.67681939
O	-4.8443029	-2.4291055	-1.6831637	H	-3.3201655	-4.8516305	1.50310445
C	-3.7378761	-4.360388	-2.5394157	H	-1.1228859	-1.2285388	-2.7154524
O	-1.8357338	-4.0651555	-0.5090209	H	2.08401922	0.81281522	5.45312344
C	-4.0482033	-4.0458676	1.36249913	H	1.15728733	-0.5966223	4.84536278
H	1.26771348	2.13495999	-0.6681592	H	2.93090969	-0.6392189	4.88273796
O	-1.2521878	-2.0640867	-2.2082504	H	-1.4998417	3.43837887	-1.7140113
O	2.14168942	0.52847638	3.40010087	H	-2.372803	2.81127022	-3.1235136
C	2.06208918	0.00337999	4.71721145	H	-3.0575473	2.56737682	-1.4994291
O	-0.9778645	1.12787263	-0.6835586				

conformer <b>4a_5</b>							
C	-1.5911612	1.28820264	2.8402978	O	-1.5894209	1.0730566	-2.78769
C	-0.6516779	-1.1522809	1.67343342	C	-2.2809561	0.46287705	-1.9843092
C	-0.5702827	-0.9802995	3.20533398	C	-3.7663035	0.30574323	-2.0784836
C	-1.3582203	0.23561862	3.65739123	H	-1.0135053	-1.8673754	3.67892332
C	-0.3832318	-0.0828345	-0.6141794	H	0.03514106	0.78756268	-1.1315525
C	0.34425479	-1.3531677	-1.1330627	H	1.1240875	-2.398023	1.4410361
C	-0.0820584	-2.6079639	-0.3524946	H	-0.9092978	-1.6599309	-2.9009119
C	0.06374419	-2.4180986	1.173003	H	-0.5001887	-4.343367	-2.5006644
C	0.15447755	-1.5759259	-2.6512003	H	0.40391132	-4.7228798	-0.2755796

C	0. 90336127	-2. 8313863	-3. 1682212	H	1. 78848873	-3. 683898	-0. 5876657
C	0. 55450469	-4. 0852529	-2. 3313472	H	0. 05760936	3. 12701823	2. 26033146
C	0. 72643089	-3. 8297866	-0. 8251327	H	2. 17505309	2. 35485992	1. 43536881
C	-0. 215297	0. 11879907	0. 92113519	H	-0. 219117	2. 98038304	-0. 8023845
C	-1. 0023494	1. 37990101	1. 42785068	H	-1. 3256182	3. 85708637	0. 23219369
C	0. 01445632	2. 54938408	1. 32938522	H	-0. 5249276	5. 83786391	1. 58155661
N	1. 29477149	1. 90702257	1. 20524584	H	0. 99686478	7. 78072948	1. 56176328
C	1. 23197748	0. 53826057	1. 1449212	H	3. 01619999	7. 77180725	0. 12254807
O	2. 21596934	-0. 1817743	1. 1459885	H	3. 51343593	5. 80481198	-1. 3041213
C	-0. 289778	3. 50081143	0. 1593552	H	2. 00557234	3. 8511613	-1. 2981651
C	0. 62504099	4. 7035043	0. 13731135	H	-2. 9920261	2. 85565896	2. 36044964
C	0. 35488888	5. 81826366	0. 94275311	H	-3. 2285431	2. 19252879	3. 95848901
C	1. 21296036	6. 91894562	0. 93564847	H	-1. 8469416	3. 2697053	3. 65053957
C	2. 34814973	6. 91454181	0. 12726315	H	-2. 1990449	1. 0983912	5. 48301862
C	2. 62721845	5. 80966506	-0. 674672	H	-2. 6134803	-0. 5985815	5. 18603651
C	1. 77077872	4. 70807761	-0. 6697575	H	-0. 9911327	-0. 1401428	5. 7425175
C	-2. 4570245	2. 46356428	3. 23241182	H	-1. 3879283	-3. 720665	1. 46398494
C	-1. 8215785	0. 15118682	5. 09069926	H	0. 98908221	-3. 0821084	-6. 6915108
H	-1. 7222528	-1. 3080867	1. 46067252	H	1. 84369544	-1. 8672056	-5. 7186553
O	-0. 5035643	-3. 5567819	1. 83378222	H	2. 27114248	-3. 6056851	-5. 5813657
H	-1. 1393274	-2. 8187087	-0. 5701343	H	2. 41372546	-1. 6252905	-3. 2874697
H	1. 41757552	-1. 1912873	-0. 9699809	H	1. 09015102	-6. 1864093	-2. 1537835
C	0. 43712018	-3. 0547432	-4. 6266505	H	1. 25520294	-5. 5511535	-3. 7916375
O	-0. 7325249	-3. 3473702	-4. 8947647	H	2. 45959086	-5. 1425006	-2. 5566664
C	1. 45816253	-2. 8894139	-5. 7224107	H	-0. 002352	0. 25058908	-3. 3706309
O	2. 30786088	-2. 578031	-3. 080537	H	2. 31607091	-1. 6270598	4. 67801338
C	1. 39156938	-5. 3070545	-2. 7335008	H	0. 70444622	-2. 0300021	5. 30233766
H	-1. 8602254	1. 56873235	0. 77088243	H	1. 30300932	-2. 7805239	3. 78979359
O	0. 69829303	-0. 4393168	-3. 3479152	H	-4. 0166934	-0. 7447514	-2. 2450191
O	0. 76475336	-0. 773776	3. 6535397	H	-4. 2365079	0. 67356254	-1. 1628984
C	1. 28901155	-1. 8686504	4. 39160299	H	-4. 1402397	0. 89578474	-2. 9199683
O	-1. 8050332	-0. 1961178	-0. 8917155				

conformer 4a_6							
C	0. 36366896	2. 95582557	1. 0854974	O	-0. 3143895	0. 39914539	-3. 1222272
C	-0. 5084762	0. 31344331	1. 75748972	C	-1. 2583411	0. 32603138	-2. 3519916
C	-0. 1751815	1. 29887077	2. 89529387	C	-2. 6610558	0. 72214064	-2. 6961025
C	-0. 0105352	2. 70845558	2. 36182377	H	-1. 0123121	1. 30019351	3. 60730408
C	0. 06826886	-0. 5739729	-0. 5447038	H	0. 83014293	-0. 5944195	-1. 3323173
C	-0. 1660803	-2. 0292061	-0. 0463943	H	0. 12216372	-1. 5110127	2. 78635387
C	-1. 1721764	-2. 0686039	1. 12070222	H	-1. 5498183	-2. 5624683	-1. 6314525
C	-0. 75689	-1. 1195547	2. 26560673	H	-2. 8195872	-4. 1286999	0. 18284368
C	-0. 6341729	-2. 963416	-1. 1846843	H	-2. 0995866	-3. 5326607	2. 42993751
C	-0. 8678458	-4. 4150116	-0. 7071145	H	-0. 4144008	-3. 8733118	2. 05779576
C	-1. 8239539	-4. 4610672	0. 50555255	H	2. 76062862	2. 7579638	0. 29201043
C	-1. 3559779	-3. 5116425	1. 6242664	H	3. 82005961	0. 64681716	0. 66270112

C	0. 52150171	0. 37007704	0. 60950084	H	3. 69251927	1. 71790914	-1. 8543729
C	0. 76215304	1. 8403001	0. 10731617	H	2. 09001249	1. 17429374	-2. 2582022
C	2. 28347773	1. 91195744	-0. 2166752	H	0. 77258578	2. 62481828	-3. 6257166
N	2. 84659455	0. 73910701	0. 39812087	H	0. 3730986	4. 83164009	-4. 6451146
C	1. 92471571	-0. 060995	1. 01768584	H	1. 75852244	6. 78301967	-3. 9899169
O	2. 23347884	-1. 0240582	1. 70092551	H	3. 56192698	6. 51095452	-2. 3085357
C	2. 6291513	1. 95871121	-1. 7159533	H	3. 97613656	4. 31032517	-1. 2756849
C	2. 38719004	3. 30609042	-2. 3540362	H	0. 06295109	4. 33366551	-0. 5436961
C	1. 38233542	3. 47037764	-3. 3155179	H	-0. 2496723	5. 04893941	1. 01257002
C	1. 15491833	4. 71804487	-3. 898738	H	1. 42761611	4. 743567	0. 52079255
C	1. 9340812	5. 81315001	-3. 5323551	H	0. 03456739	4. 77207127	3. 08659034
C	2. 94635909	5. 65988858	-2. 5878427	H	-1. 3726649	3. 82022499	3. 59378129
C	3. 1752329	4. 41251927	-2. 0047178	H	0. 22291265	3. 55452595	4. 3248301
C	0. 40912013	4. 34671348	0. 49479815	H	-1. 7416115	-1. 8593585	3. 78392101
C	-0. 2984736	3. 77623125	3. 38780854	H	-2. 9454584	-5. 6206646	-3. 2941688
H	-1. 4728634	0. 66411049	1. 35449935	H	-3. 325533	-4. 3784476	-2. 0931526
O	-1. 8258601	-1. 071197	3. 21865981	H	-2. 1581199	-4. 0322598	-3. 4095985
H	-2. 1564314	-1. 7389973	0. 75634322	H	0. 4027074	-5. 8949554	-0. 5626845
H	0. 798991	-2. 4136733	0. 30527494	H	-2. 6808853	-5. 8612041	1. 9340574
C	-1. 3997982	-5. 2978898	-1. 8586152	H	-2. 3878019	-6. 5666573	0. 34605141
O	-0. 9107235	-6. 4175848	-2. 0508002	H	-1. 0307252	-6. 2721179	1. 44919852
C	-2. 529126	-4. 7902888	-2. 7163138	H	1. 11396008	-3. 4987959	-1. 843296
O	0. 4182153	-4. 94384	-0. 320686	H	1. 86160993	0. 32576917	5. 30970575
C	-1. 9839711	-5. 8718788	1. 08872202	H	0. 44130314	1. 37491473	5. 48822094
H	0. 17213717	2. 02034661	-0. 7971592	H	0. 24928405	-0. 3272508	4. 96202732
O	0. 36988212	-2. 9725121	-2. 2046914	H	-2. 9681576	1. 56915205	-2. 0776414
O	1. 04854761	0. 96745253	3. 54624874	H	-2. 7060024	1. 02021037	-3. 747466
C	0. 87790898	0. 56472593	4. 89683996	H	-3. 3328688	-0. 1272387	-2. 5481068
O	-1. 205109	-0. 0977789	-1. 0612257				

Table S5. Cartesian coordinates for the low-energy optimized conformers of **5a** at B3LYP-D3(BJ)/6-311G\* level.

conformer <b>5a_1</b>							
C	-1. 9354897	0. 41203325	-2. 5608914	0	-1. 2073567	1. 20279943	2. 91772139
C	0. 74452737	0. 08426841	-1. 6210165	C	-0. 8257522	1. 86973884	1. 96548565
C	0. 43649849	-0. 2167344	-3. 1041237	C	-0. 9796963	3. 35329224	1. 84374492
C	-0. 9360214	0. 31795163	-3. 4682312	H	1. 19833324	0. 2811324	-3. 7170021
C	-0. 0230592	-0. 0703207	0. 78924113	H	-0. 7316124	-0. 5715536	1. 45724812
C	1. 41617982	-0. 4496159	1. 23025593	H	2. 31059526	-1. 4156036	-1. 3214586
C	2. 47368785	0. 08873187	0. 24888094	H	1. 61376678	1. 08968737	2. 77572045
C	2. 1750187	-0. 3336543	-1. 2127909	H	4. 25830053	1. 17201567	2. 12021843
C	1. 7326229	0. 00501494	2. 67384268	H	4. 63041348	0. 06097634	0. 00368729
C	3. 15756227	-0. 3989734	3. 12720221	H	3. 95890129	-1. 4565595	0. 59186979
C	4. 22388024	0. 0736083	2. 11365529	H	-3. 3419318	-1. 5179216	-1. 6401854
C	3. 88066171	-0. 3650995	0. 68076399	H	-2. 0206326	-3. 3499108	-0. 7553366
C	-0. 3342728	-0. 4898321	-0. 6752984	H	-4. 0122267	-2. 1065885	0. 70506955
C	-1. 7824723	-0. 0472599	-1. 1050731	H	-2. 9011044	-0. 934126	1. 34900184
C	-2. 6891064	-1. 2706846	-0. 7955565	H	-3. 799772	1. 17528167	1. 93018578
N	-1. 7714725	-2. 3710863	-0. 676314	H	-5. 5769263	2. 87485414	1. 76450178
C	-0. 4492728	-2. 0111162	-0. 6920117	H	-7. 4498258	2. 57447463	0. 16693539
O	0. 45832006	-2. 823281	-0. 620973	H	-7. 5448752	0. 55121954	-1. 2637065
C	-3. 539995	-1. 1395021	0. 482793	H	-5. 7750891	-1. 159315	-1. 1177124
C	-4. 6353731	-0. 1049229	0. 39448843	H	-3. 5624302	1. 74551526	-2. 0976657
C	-4. 6031247	1. 03372986	1. 21080828	H	-3. 2789012	1. 59718863	-3. 8185809
C	-5. 6099065	1. 99638164	1. 12512493	H	-4. 0491606	0. 26560686	-2. 9567027
C	-6. 663641	1. 82662561	0. 22988092	H	-1. 1222505	1. 89330417	-4. 9179337
C	-6. 7162395	0. 69007115	-0. 573975	H	-0. 2417034	0. 49395357	-5. 5177677
C	-5. 7104056	-0. 2738485	-0. 4890354	H	-1. 9886868	0. 39171995	-5. 3533148
C	-3. 2765056	1. 03544119	-2. 8807561	H	3. 73342884	0. 05003942	6. 58431551
C	-1. 0842785	0. 79932464	-4. 8901028	H	2. 64554452	-1. 1536099	5. 86311701
H	0. 7131436	1. 18313963	-1. 5376574	H	4. 41593931	-1. 2418046	5. 57669028
H	2. 46969362	1. 18803157	0. 28852134	H	2. 31714053	-2. 0868027	3. 56502169
H	1. 46919763	-1. 5458712	1. 22656571	H	6. 36717444	-0. 0415911	1. 75653485
C	3. 40654375	0. 29822767	4. 48636337	H	5. 93228903	-0. 0897086	3. 465767
O	3. 4687679	1. 52775822	4. 58401655	H	5. 68819573	-1. 5207618	2. 4483967
C	3. 55912126	-0. 5758994	5. 70444578	H	-0. 0084201	-0. 088993	3. 58693356
O	3. 2027838	-1. 8248873	3. 23528242	H	0. 89902153	-3. 09667	-4. 6700685
C	5. 63031297	-0. 427491	2. 46950183	H	-0. 2209956	-1. 8625131	-5. 2556209
H	-2. 0935373	0. 81360079	-0. 5027384	H	1. 53234992	-1. 4992956	-5. 1096923
O	0. 80446487	-0. 6421318	3. 56552964	H	4. 64184101	0. 09825999	-3. 3839536
O	0. 4787523	-1. 6260496	-3. 3184467	H	4. 56420441	-1. 1116122	-2. 086347
C	0. 68301224	-2. 0246353	-4. 6634072	H	3. 3920465	-1. 1606596	-3. 4387289
O	3. 09991497	0. 36901693	-2. 0630164	H	-1. 535921	3. 73142665	2. 70614094
C	3. 96628277	-0. 5086636	-2. 7754878	H	0. 00480766	3. 8269673	1. 82468699
O	-0. 1845292	1. 37114308	0. 87517763	H	-1. 5412711	3. 59360684	0. 93734453

conformer 5a_2							
C	-2.1494201	0.55180912	-2.4402543	O	-0.9771095	0.77787022	3.04803496
C	0.59084726	0.17123886	-1.7325322	C	-0.6708713	1.547096	2.14738299
C	0.17834511	-0.0018253	-3.2091933	C	-0.8279756	3.03430941	2.202304
C	-1.2310553	0.51170024	-3.4331737	H	0.85775004	0.59183049	-3.835739
C	0.01902999	-0.2491228	0.70474893	H	-0.6403213	-0.8201788	1.36659972
C	1.48354848	-0.6770018	0.98979737	H	2.16980944	-1.2982323	-1.6806214
C	2.47114635	-0.0135006	0.01204128	H	1.81443559	0.66443843	2.68786864
C	2.05774281	-0.2307704	-1.4648399	H	4.41901767	0.80777485	1.8357979
C	1.91345195	-0.4007243	2.44957352	H	4.59998018	-0.0643149	-0.4277342
C	3.3660759	-0.8582181	2.73998258	H	3.93158094	-1.6192497	0.04590917
C	4.36042367	-0.2817054	1.70429105	H	-3.4921903	-1.4319603	-1.5689697
C	3.89530468	-0.5434003	0.26253172	H	-2.1202695	-3.3337978	-1.0071109
C	-0.4075044	-0.5053688	-0.76926	H	-3.9773089	-2.2311764	0.75486101
C	-1.8801448	-0.0169214	-1.0378545	H	-2.8038963	-1.1299539	1.41351429
C	-2.7692789	-1.2634643	-0.762797	H	-3.6501653	0.88939307	2.2970889
N	-1.855209	-2.3733887	-0.8218821	H	-5.4158581	2.60296836	2.4425301
C	-0.5376974	-2.0138041	-0.9428175	H	-7.3942979	2.48982394	0.95153805
O	0.36601956	-2.8246426	-1.0581387	H	-7.6068104	0.63980208	-0.6859659
C	-3.5127753	-1.2495205	0.58687517	H	-5.8506788	-1.0821955	-0.851676
C	-4.5994806	-0.2068792	0.68694044	H	-3.7968069	1.72387924	-1.6974706
C	-4.5005631	0.8328374	1.62147752	H	-3.5437483	1.92250049	-3.4096132
C	-5.5004145	1.80228285	1.71225075	H	-4.2697825	0.41894877	-2.8095102
C	-6.6134851	1.73741035	0.87706968	H	-2.5499191	1.08014867	-5.0822518
C	-6.7321917	0.69818756	-0.0430417	H	-0.9740187	1.89438896	-5.0552098
C	-5.7334672	-0.2725094	-0.134559	H	-1.1178856	0.19805603	-5.557597
C	-3.5134478	1.1820075	-2.6058297	H	4.80553881	-1.9664511	4.97439108
C	-1.4895821	0.95010828	-4.8533823	H	4.21979006	-0.790577	6.1678599
H	0.52594131	1.25184815	-1.5358316	H	3.06473035	-1.9061323	5.41016673
H	2.47892016	1.06432589	0.22006493	H	2.5386731	-2.5810955	3.05159953
H	1.52937804	-1.7642524	0.84732327	H	6.46627055	-0.3773615	1.16632313
C	3.72922255	-0.3146456	4.14249658	H	6.16453659	-0.6262759	2.88689234
O	3.81104037	0.89725009	4.36651881	H	5.81257331	-1.9213592	1.72857185
C	3.969022	-1.3165427	5.24222198	H	0.24501978	-0.5986785	3.47494845
O	3.40039631	-2.286908	2.68749128	H	1.11953382	-2.7537661	-4.7790688
C	5.77925008	-0.8380548	1.88462812	H	1.11968061	-1.107967	-5.442295
H	-2.1315343	0.7930893	-0.3441394	H	2.19311354	-1.5335331	-4.0721638
O	1.04857757	-1.1459442	3.32692243	H	2.18168677	2.34478872	-2.3759747
O	0.16880114	-1.3655093	-3.6169467	H	3.62121472	2.0849831	-1.3367458
C	1.21157102	-1.6947666	-4.5233612	H	3.78187387	2.13553485	-3.0920299
O	2.96379657	0.40800992	-2.3830216	H	-1.313669	3.31251317	3.14187753
C	3.130425	1.81376987	-2.2742579	H	0.15390946	3.51176703	2.15861622
O	-0.1204232	1.17456086	0.9603565	H	-1.4577391	3.37039652	1.37458147

conformer 5a_3							
C	-1. 9866989	0. 8092511	-2. 6756936	0	-0. 8650752	2. 26377897	2. 6027084
C	0. 69023186	0. 28946199	-1. 8032972	C	-0. 4632859	2. 74628032	1. 55278556
C	0. 26175764	-0. 1805214	-3. 2114299	C	-0. 438901	4. 20889946	1. 23661724
C	-1. 0604776	0. 45993167	-3. 5980077	H	1. 04071433	0. 12745882	-3. 9200312
C	0. 04582896	0. 58299623	0. 63312697	H	-0. 6790612	0. 26924646	1. 39310667
C	1. 45476559	0. 0966669	1. 06898926	H	2. 084847	-1. 3325504	-1. 3406293
C	2. 50973002	0. 35394895	-0. 0233726	H	1. 91331134	1. 80333175	2. 36261026
C	2. 0825437	-0. 2379491	-1. 3920999	H	4. 50768499	1. 47242584	1. 59391131
C	1. 9028584	0. 70882347	2. 41616701	H	4. 63190537	0. 03141068	-0. 3457878
C	3. 29645442	0. 20493865	2. 86680716	H	3. 82686435	-1. 2935108	0. 48873163
C	4. 34964992	0. 3965349	1. 75264128	H	-3. 514017	-0. 8079998	-1. 4320405
C	3. 87816085	-0. 1992428	0. 41629107	H	-2. 4167045	-2. 5769973	-0. 2247098
C	-0. 3902331	-0. 0014528	-0. 741484	H	-2. 9584505	0. 26108778	1. 40247899
C	-1. 7946862	0. 5509594	-1. 178492	H	-4. 0957152	0. 99777881	0. 29323334
C	-2. 8199583	-0. 485482	-0. 6471068	H	-6. 1447875	-0. 2728285	-0. 4756296
N	-2. 0346466	-1. 6428427	-0. 3215995	H	-7. 8835522	-1. 8703668	0. 24299763
C	-0. 6869391	-1. 4790434	-0. 5069721	H	-7. 447455	-3. 4312814	2. 1199044
O	0. 11922343	-2. 3844435	-0. 3730073	H	-5. 2569587	-3. 3910984	3. 28267677
C	-3. 6200208	0. 04379266	0. 55568134	H	-3. 5043109	-1. 802492	2. 57888458
C	-4. 69787	-0. 9163443	1. 00316468	H	-3. 346547	2. 45893885	-2. 4537523
C	-5. 9376281	-0. 9492769	0. 3502319	H	-3. 3560302	1. 78921254	-4. 0790717
C	-6. 9236258	-1. 8514146	0. 75246004	H	-4. 1424047	0. 90631768	-2. 77733
C	-6. 6791888	-2. 7290682	1. 80705287	H	-2. 1243021	0. 21988917	-5. 4562266
C	-5. 4487296	-2. 70616	2. 46066601	H	-1. 334164	1. 81066095	-5. 2529826
C	-4. 4613803	-1. 8049085	2. 06079909	H	-0. 3821306	0. 39219403	-5. 6585843
C	-3. 2741638	1. 5252513	-3. 0218239	H	4. 58404975	-0. 4258161	5. 36487515
C	-1. 2389096	0. 73525566	-5. 0700367	H	4. 11144729	1. 07047654	6. 19420567
H	0. 79240567	1. 38420514	-1. 8850949	H	2. 85412774	-0. 0823339	5. 70173014
H	2. 63319339	1. 43961554	-0. 1503008	H	2. 29655893	-1. 290099	3. 58213423
H	1. 38020192	-0. 987165	1. 22562884	H	6. 44256663	-0. 0243184	1. 33166811
C	3. 69992767	1. 05367693	4. 09654837	H	6. 10310384	0. 22562406	3. 0449027
O	3. 90924536	2. 2675365	4. 00754639	H	5. 64199954	-1. 2969652	2. 26285075
C	3. 81792732	0. 3509699	5. 42446009	H	0. 21498866	0. 95067325	3. 40062556
O	3. 18622472	-1. 1860209	3. 18289947	H	1. 11725446	-1. 8692436	-5. 0283128
C	5. 70877333	-0. 2129839	2. 12297058	H	0. 28763828	-3. 286112	-4. 3570922
H	-1. 9703373	1. 52336356	-0. 7019021	H	-0. 6724086	-1. 9969493	-5. 0912494
O	0. 96023846	0. 30944214	3. 42989335	H	3. 07245112	-1. 5275511	-3. 5071293
O	0. 12577516	-1. 5995444	-3. 2179979	H	4. 45773888	-0. 4341704	-3. 6952729
C	0. 22125535	-2. 2036105	-4. 4973769	H	4. 31635122	-1. 4189714	-2. 224289
O	3. 03249555	0. 21402886	-2. 3745075	H	-0. 9149752	4. 7632676	2. 05031546
C	3. 75294194	-0. 8578685	-2. 9750636	H	0. 59503811	4. 54789748	1. 13640945
O	0. 05181392	2. 03115207	0. 51595467	H	-0. 9975354	4. 39834459	0. 31644362

conformer 5a_4							
C	-3. 358402	-0. 321416	-0. 8488869	0	0. 22518128	1. 57062316	3. 06051347

C	-0.7631629	0.43710814	-1.7857128	C	-0.314787	2.17280459	2.14299332
C	-1.7520108	-0.2084703	-2.7793602	C	-0.9973268	3.4983233	2.27323597
C	-3.1467539	-0.2774829	-2.1842634	H	-1.8000855	0.41436105	-3.6828408
C	0.20606171	0.43745101	0.56345936	H	0.27517611	-0.1539143	1.48311537
C	1.63752762	0.60760409	-0.0135654	H	1.06580074	-0.3597222	-2.6058921
C	1.61964305	1.31467119	-1.381661	H	2.1979616	2.33766763	1.20486244
C	0.65069718	0.62705232	-2.3760171	H	3.67921195	3.15056644	-0.9580033
C	2.58998532	1.34482018	0.95659239	H	3.0330011	1.88449503	-2.932744
C	4.02603393	1.48785921	0.39001812	H	3.40578459	0.35327325	-2.1549292
C	4.01785877	2.10741725	-1.0275362	H	-3.1008565	-2.3580943	0.64166234
C	3.04456268	1.37231767	-1.9631718	H	-0.9808103	-3.4696189	0.46844617
C	-0.7564301	-0.2859937	-0.4239373	H	-1.2878514	-1.081989	2.77770001
C	-2.2097345	-0.3970364	0.16421217	H	-3.0301459	-0.9167594	2.75769787
C	-2.2307791	-1.7523171	0.92125025	H	-4.5148747	-2.9396519	3.05324817
N	-1.0823847	-2.4615267	0.42645678	H	-4.7325174	-5.1000946	4.22639462
C	-0.3193693	-1.7453795	-0.4603583	H	-2.7133563	-6.295827	5.0279162
O	0.62948694	-2.2171582	-1.0635004	H	-0.4638476	-5.3213788	4.65110681
C	-2.2088283	-1.5767831	2.44945887	H	-0.2239896	-3.1628847	3.47896601
C	-2.3527607	-2.8886709	3.18576358	H	-4.7161046	0.24853702	0.72608128
C	-3.6192118	-3.4494932	3.4001877	H	-5.4650002	0.23678575	-0.8514596
C	-3.7472936	-4.6713991	4.06229505	H	-5.0994347	-1.3040463	-0.0418312
C	-2.6129688	-5.3440975	4.51280536	H	-4.0140603	-1.0658656	-3.9867946
C	-1.3491886	-4.7963854	4.30159543	H	-5.2189222	-0.5808566	-2.8145735
C	-1.21835	-3.5746954	3.64026798	H	-4.3273057	0.65990538	-3.7123426
C	-4.7362709	-0.289051	-0.2283124	H	5.57610382	1.05633627	2.78335788
C	-4.2407725	-0.3151311	-3.2222685	H	6.70272094	1.48663257	1.45313087
H	-1.1574603	1.44679007	-1.5966813	H	6.37749885	2.64063474	2.76183318
H	1.28580889	2.3482779	-1.2227073	H	4.26531721	-0.2898923	1.11956457
H	2.04586423	-0.4020531	-0.1497582	H	5.38089567	2.60842965	-2.6475209
C	4.7872634	2.43470885	1.34834378	H	6.12503798	2.68324532	-1.0493994
O	4.46515439	3.61991804	1.47923984	H	5.80685945	1.11218446	-1.8065835
C	5.93584871	1.85968066	2.13622581	H	1.92620634	0.83425636	2.73858961
O	4.61373182	0.18531432	0.33566008	H	-0.0314937	-1.1234004	-4.6115436
C	5.41362568	2.12432111	-1.6652956	H	-0.6940356	-2.7670824	-4.584626
H	-2.3893268	0.42896274	0.86326674	H	-1.7139561	-1.4284085	-5.1471656
O	2.68637846	0.57612273	2.17036296	H	-0.7725653	2.80183508	-3.2278619
O	-1.3985386	-1.54914	-3.1007268	H	0.95184478	3.29369468	-3.1647607
C	-0.9345574	-1.7113564	-4.4332281	H	0.16710311	2.97848627	-4.7121188
O	0.61242858	1.29646508	-3.6496984	H	-1.013944	3.79524819	3.32567578
C	0.21720872	2.65995702	-3.666799	H	-0.450739	4.25281601	1.70229442
O	-0.3555552	1.74642186	0.85050483	H	-2.0287545	3.42014045	1.92008395

conformer 5a_5							
C	-3.358402	-0.321416	-0.8488869	O	0.22518128	1.57062316	3.06051347
C	-0.7631629	0.43710814	-1.7857128	C	-0.314787	2.17280459	2.14299332

C	-1.7520108	-0.2084703	-2.7793602	C	-0.9973268	3.4983233	2.27323597
C	-3.1467539	-0.2774829	-2.1842634	H	-1.8000855	0.41436105	-3.6828408
C	0.20606171	0.43745101	0.56345936	H	0.27517611	-0.1539143	1.48311537
C	1.63752762	0.60760409	-0.0135654	H	1.06580074	-0.3597222	-2.6058921
C	1.61964305	1.31467119	-1.381661	H	2.1979616	2.33766763	1.20486244
C	0.65069718	0.62705232	-2.3760171	H	3.67921195	3.15056644	-0.9580033
C	2.58998532	1.34482018	0.95659239	H	3.0330011	1.88449503	-2.932744
C	4.02603393	1.48785921	0.39001812	H	3.40578459	0.35327325	-2.1549292
C	4.01785877	2.10741725	-1.0275362	H	-3.1008565	-2.3580943	0.64166234
C	3.04456268	1.37231767	-1.9631718	H	-0.9808103	-3.4696189	0.46844617
C	-0.7564301	-0.2859937	-0.4239373	H	-1.2878514	-1.081989	2.77770001
C	-2.2097345	-0.3970364	0.16421217	H	-3.0301459	-0.9167594	2.75769787
C	-2.2307791	-1.7523171	0.92125025	H	-4.5148747	-2.9396519	3.05324817
N	-1.0823847	-2.4615267	0.42645678	H	-4.7325174	-5.1000946	4.22639462
C	-0.3193693	-1.7453795	-0.4603583	H	-2.7133563	-6.295827	5.0279162
O	0.62948694	-2.2171582	-1.0635004	H	-0.4638476	-5.3213788	4.65110681
C	-2.2088283	-1.5767831	2.44945887	H	-0.2239896	-3.1628847	3.47896601
C	-2.3527607	-2.8886709	3.18576358	H	-4.7161046	0.24853702	0.72608128
C	-3.6192118	-3.4494932	3.4001877	H	-5.4650002	0.23678575	-0.8514596
C	-3.7472936	-4.6713991	4.06229505	H	-5.0994347	-1.3040463	-0.0418312
C	-2.6129688	-5.3440975	4.51280536	H	-4.0140603	-1.0658656	-3.9867946
C	-1.3491886	-4.7963854	4.30159543	H	-5.2189222	-0.5808566	-2.8145735
C	-1.21835	-3.5746954	3.64026798	H	-4.3273057	0.65990538	-3.7123426
C	-4.7362709	-0.289051	-0.2283124	H	5.57610382	1.05633627	2.78335788
C	-4.2407725	-0.3151311	-3.2222685	H	6.70272094	1.48663257	1.45313087
H	-1.1574603	1.44679007	-1.5966813	H	6.37749885	2.64063474	2.76183318
H	1.28580889	2.3482779	-1.2227073	H	4.26531721	-0.2898923	1.11956457
H	2.04586423	-0.4020531	-0.1497582	H	5.38089567	2.60842965	-2.6475209
C	4.7872634	2.43470885	1.34834378	H	6.12503798	2.68324532	-1.0493994
O	4.46515439	3.61991804	1.47923984	H	5.80685945	1.11218446	-1.8065835
C	5.93584871	1.85968066	2.13622581	H	1.92620634	0.83425636	2.73858961
O	4.61373182	0.18531432	0.33566008	H	-0.0314937	-1.1234004	-4.6115436
C	5.41362568	2.12432111	-1.6652956	H	-0.6940356	-2.7670824	-4.584626
H	-2.3893268	0.42896274	0.86326674	H	-1.7139561	-1.4284085	-5.1471656
O	2.68637846	0.57612273	2.17036296	H	-0.7725653	2.80183508	-3.2278619
O	-1.3985386	-1.54914	-3.1007268	H	0.95184478	3.29369468	-3.1647607
C	-0.9345574	-1.7113564	-4.4332281	H	0.16710311	2.97848627	-4.7121188
O	0.61242858	1.29646508	-3.6496984	H	-1.013944	3.79524819	3.32567578
C	0.21720872	2.65995702	-3.666799	H	-0.450739	4.25281601	1.70229442
O	-0.3555552	1.74642186	0.85050483	H	-2.0287545	3.42014045	1.92008395

conformer 5a_6							
C	-2.2023126	1.05449473	-2.4694351	O	-0.8610516	1.85388038	2.9006471
C	0.53131193	0.56001824	-1.8090703	C	-0.5423071	2.4934824	1.90763974
C	0.03484087	0.21195568	-3.2308554	C	-0.6058755	3.98430306	1.79255338

C	-1. 3228643	0. 84824131	-3. 4772915	H	0. 75152948	0. 59846862	-3. 9669571	
C	0. 01645349	0. 50386242	0. 67908935	H	-0. 6507394	0. 05365019	1. 42336774	
C	1. 46688863	0. 04001062	0. 97320342	H	2. 09903244	-0. 9599286	-1. 701006	
C	2. 44521418	0. 51985729	-0. 1143926	H	1. 90160208	1. 56451212	2. 48569028	
C	1. 98792975	0. 11934885	-1. 5465477	H	4. 45784439	1. 51230508	1. 57985161	
C	1. 94870571	0. 47504715	2. 37698856	H	4. 56714708	0. 40413161	-0. 5568118	
C	3. 38576106	-0. 0075238	2. 68957094	H	3. 88788222	-1. 0896708	0. 08427943	
C	4. 36861509	0. 41694827	1. 57668476	H	-3. 5676831	-0. 798589	-1. 3896646	
C	3. 86600618	0. 00336207	0. 18382258	H	-2. 3302373	-2. 6420193	-0. 473197	
C	-0. 4638824	0. 0818116	-0. 7360827	H	-2. 9440166	-0. 0605963	1. 53470458	
C	-1. 9133255	0. 61235721	-1. 0289784	H	-4. 1674852	0. 73943927	0. 5704739	
C	-2. 8573682	-0. 5403075	-0. 595028	H	-6. 1734426	-0. 5512833	-0. 2844021	
N	-1. 9986065	-1. 6844034	-0. 4442556	H	-7. 7925523	-2. 3219676	0. 29432329	
C	-0. 6738911	-1. 4256354	-0. 6849685	H	-7. 1972304	-4. 0656557	1. 95408544	
O	0. 18723818	-2. 2890015	-0. 7295573	H	-4. 9670092	-4. 0348195	3. 03913627	
C	-3. 6308505	-0. 2104003	0. 69317466	H	-3. 3329438	-2. 2738369	2. 47325668	
C	-4. 635629	-1. 2788611	1. 05724125	H	-4. 3369889	1. 00974312	-2. 7560496	
C	-5. 8970275	-1. 3071601	0. 44693606	H	-3. 7595275	2. 37538751	-1. 7823511	
C	-6. 8155361	-2. 3069515	0. 77031361	H	-3. 553551	2. 41223329	-3. 5152638	
C	-6. 4815273	-3. 2873324	1. 70276868	H	-1. 3485216	0. 31386431	-5. 5583	
C	-5. 228762	-3. 2697149	2. 31273766	H	-2. 6234249	1. 43360103	-5. 1353237	
C	-4. 3087342	-2. 2710204	1. 99145731	H	-0. 9533724	2. 01471596	-5. 2390701	
C	-3. 5339896	1. 7451788	-2. 6496944	H	3. 07896241	-0. 7419642	5. 45984638	
C	-1. 5830622	1. 17603523	-4. 9252836	H	4. 80783777	-0. 9381872	5. 0166092	
H	0. 55004075	1. 66228542	-1. 772328	H	4. 29922865	0. 3888608	6. 07983134	
H	2. 49795107	1. 61826412	-0. 0780473	H	2. 50624097	-1. 6529011	3. 20522811	
H	1. 4592325	-1. 0572265	0. 96981157	H	6. 45854397	0. 19833766	1. 01109026	
C	3. 80310313	0. 66620199	4. 01907637	H	6. 19136501	0. 16297583	2. 75471401	
O	3. 95377061	1. 88867188	4. 10831187	H	5. 77825865	-1. 2491318	1. 76594044	
C	4. 00876993	-0. 2211282	5. 21965487	H	0. 30646596	0. 48098855	3. 46088451	
O	3. 36654302	-1. 4343992	2. 78826647	H	1. 64547905	-1. 9008171	-4. 0299717	
C	5. 77685758	-0. 1544468	1. 79279824	H	0. 22870074	-2. 8076368	-4. 564543	
H	-2. 1056479	1. 50183918	-0. 4165441	H	0. 58976742	-1. 247163	-5. 3279766	
O	1. 07822013	-0. 1202892	3. 35810228	H	3. 24883548	-0. 4421446	-4. 0171863	
O	-0. 1829319	-1. 1868215	-3. 3950883	H	4. 51656498	0. 712588	-3. 5983481	
C	0. 61937811	-1. 8020242	-4. 3858248	H	4. 2353288	-0. 6903899	-2. 545879	
O	2. 81867119	0. 85315657	-2. 4681803	H	-1. 0630891	4. 39805032	2. 69578503	
C	3. 74961672	0. 05251899	-3. 1839577	H	0. 40348351	4. 39016935	1. 69032069	
O	-0. 0518424	1. 95252801	0. 759114	H	-1. 2223802	4. 26366626	0. 93432894	

conformer 5a_7							
C	-2. 7868059	-2. 1488581	0. 70153646	0	1. 00290873	1. 35235134	2. 86264942
C	-1. 5479424	-0. 4107562	-1. 1630086	C	-0. 1582885	1. 40482	2. 48236415
C	-2. 525178	-1. 4785978	-1. 6946601	C	-1. 2738797	2. 05342201	3. 24018175
C	-3. 3441243	-1. 9997665	-0. 5236098	H	-3. 204224	-1. 0336083	-2. 4327044

C	0.29053366	0.11375802	0.4984016	H	1.04721829	-0.3429498	1.14779485
C	0.99773472	0.99878877	-0.5685609	H	-0.270925	-0.1677771	-2.9239005
C	0.00082241	1.55970374	-1.6028628	H	1.21102139	2.79583467	0.66662686
C	-0.8747875	0.44891098	-2.2513508	H	0.90008292	4.22252116	-1.6159645
C	1.83755186	2.1381725	0.05375073	H	0.02383843	2.82092346	-3.3688762
C	2.57424528	2.98887554	-1.0089246	H	1.38096289	1.70196448	-3.2719138
C	1.59353656	3.50892681	-2.0823968	H	-1.1211621	-4.0142614	0.49170918
C	0.74697401	2.37303417	-2.6778713	H	1.10512744	-3.8598071	-0.290725
C	-0.5548891	-1.0191803	-0.1543085	H	-1.0683728	-4.0618271	2.88690228
C	-1.2916109	-1.8864604	0.93504327	H	0.4357674	-4.6884757	2.26068361
C	-0.5185689	-3.2306879	0.97300617	H	2.48547835	-2.9978193	2.14733915
N	0.6091903	-3.0666465	0.09892143	H	3.73795895	-1.4573771	3.60646424
C	0.43085456	-2.0100262	-0.7594357	H	2.63234239	-0.4075374	5.55991576
O	1.05232859	-1.8887791	-1.8029661	H	0.25622425	-0.9073228	6.05663183
C	-0.1484342	-3.7644155	2.36839265	H	-1.021637	-2.4383229	4.60486615
C	0.63251942	-2.8257828	3.2577156	H	-3.227081	-2.0357398	2.80373641
C	1.98036485	-2.5453934	2.99775875	H	-4.6228478	-2.4491585	1.83834235
C	2.69594217	-1.6777337	3.82351797	H	-3.3602954	-3.6657323	2.11180911
C	2.0750372	-1.0889384	4.92265619	H	-5.3415105	-1.4380363	-1.0624202
C	0.73805837	-1.3665707	5.19772481	H	-4.7829279	-2.9562093	-1.794325
C	0.01998226	-2.2312244	4.37081452	H	-5.2754593	-2.9336987	-0.1136601
C	-3.5443819	-2.6041365	1.92274579	H	4.99063255	5.11760854	0.44671926
C	-4.7635985	-2.3499714	-0.8818519	H	5.03467304	3.34325907	0.43944924
H	-2.1866938	0.30003458	-0.6110222	H	5.16686514	4.26115372	-1.0978051
H	-0.6753108	2.26105724	-1.0915667	H	3.9032448	1.58646997	-0.9159704
H	1.70652488	0.34842264	-1.0962641	H	1.58702633	4.64318129	-3.9394732
C	3.19816029	4.19351347	-0.2625927	H	2.8887063	5.09831192	-2.8385835
O	2.50210243	5.09674773	0.21149237	H	2.99648221	3.58970487	-3.7629254
C	4.69749884	4.22398928	-0.1117868	H	2.42602963	1.39588071	1.77106983
O	3.56671391	2.16699092	-1.6313484	H	-2.8372066	-2.5815657	-4.0574634
C	2.31224718	4.24927628	-3.2189876	H	-1.1512764	-1.9587756	-4.0327083
H	-1.2158007	-1.3719882	1.89804664	H	-1.4623293	-3.6922414	-3.9124166
O	2.84751822	1.54589587	0.89259787	H	-2.1182937	-0.0298968	-4.6976972
O	-1.8747502	-2.6360355	-2.2159701	H	-2.5209425	1.68434271	-4.8521641
C	-1.8377072	-2.7047153	-3.6299805	H	-0.816398	1.19542095	-4.7539712
O	-1.9264127	1.10852994	-2.9818775	H	-0.9134366	2.35429856	4.22795302
C	-1.8250028	0.97649798	-4.3938354	H	-1.6190489	2.94014476	2.70321254
O	-0.617027	0.92039702	1.29665843	H	-2.092464	1.34166711	3.37550577

conformer 5a_8							
C	-1.2399745	0.99581503	-2.6653312	0	-0.7385122	2.57418112	1.96330148
C	0.68664102	-0.6780943	-1.3807489	C	0.32867206	2.42851716	1.38896249
C	0.28390549	-0.9926397	-2.8374673	C	1.34349172	3.5145217	1.20556835
C	-0.4745515	0.18090162	-3.4273215	H	1.20120659	-1.1634669	-3.4146729
C	-0.0497289	0.08908167	0.92046264	H	-0.9122667	0.26733406	1.57319027

C	0. 84597508	-1. 0031688	1. 57255567	H	1. 03976786	-2. 7354019	-0. 7133515
C	2. 03604393	-1. 3718645	0. 66462941	H	1. 90125796	0. 36801339	2. 88353198
C	1. 57409858	-1. 7800241	-0. 756932	H	4. 07868534	-1. 2148655	2. 57947017
C	1. 35211521	-0. 5753439	2. 96860292	H	3. 75641059	-2. 6942154	0. 68224392
C	2. 241673	-1. 6479298	3. 63695873	H	2. 30494305	-3. 401528	1. 38340843
C	3. 40273123	-2. 0703249	2. 7105512	H	-3. 5137571	0. 31177496	-1. 7520481
C	2. 88947599	-2. 4746541	1. 31666003	H	-3. 5712048	-1. 6597385	-0. 3734776
C	-0. 5364388	-0. 3274263	-0. 4994437	H	-4. 5003952	0. 70603503	0. 58618288
C	-1. 4408644	0. 778624	-1. 1595514	H	-2. 9751478	1. 37805744	1. 08468888
C	-2. 9040881	0. 35956955	-0. 8419925	H	-2. 6650778	3. 73988204	0. 80944781
N	-2. 8040631	-0. 9984668	-0. 3823882	H	-3. 4208751	5. 90348412	-0. 0947275
C	-1. 5235574	-1. 4758669	-0. 3136749	H	-5. 2795459	5. 99420152	-1. 7359313
O	-1. 2687448	-2. 6381548	-0. 0424623	H	-6. 3902967	3. 8991316	-2. 4641437
C	-3. 6147522	1. 23471951	0. 20659682	H	-5. 6457359	1. 72317812	-1. 5721767
C	-4. 0818324	2. 56612132	-0. 3318758	H	-1. 7524861	3. 08528683	-2. 561964
C	-3. 4728103	3. 75743066	0. 08126345	H	-1. 5671931	2. 51536695	-4. 2057123
C	-3. 9001765	4. 98581749	-0. 4255114	H	-3. 0060984	2. 05681706	-3. 2950277
C	-4. 9450422	5. 03685088	-1. 3454855	H	0. 39312096	1. 27277422	-5. 0611888
C	-5. 5682484	3. 86001272	-1. 7542621	H	0. 21293675	-0. 4471638	-5. 3878616
C	-5. 1421395	2. 63116381	-1. 2476802	H	-1. 2136439	0. 57696935	-5. 4195042
C	-1. 9289254	2. 22500187	-3. 2157768	H	4. 07360117	0. 40251606	4. 27236693
C	-0. 2628698	0. 41049865	-4. 9028931	H	2. 58283135	0. 97909905	5. 08532031
H	1. 32095462	0. 22107273	-1. 4474383	H	3. 93157689	0. 31767942	6. 03371195
H	2. 69128964	-0. 494083	0. 56176516	H	1. 73794419	-3. 1874888	4. 73236344
H	0. 22344341	-1. 8941155	1. 71810915	H	5. 05782068	-3. 4791455	2. 60389579
C	2. 78068578	-1. 1506894	4. 99750694	H	4. 68679131	-2. 9518867	4. 24392728
O	2. 73880113	-1. 8942025	5. 98515803	H	3. 63515782	-4. 1261124	3. 43111806
C	3. 37684845	0. 22919959	5. 09496792	H	-0. 1483957	-1. 2184959	4. 02075844
O	1. 39874697	-2. 78886	3. 90236147	H	-1. 0858189	-3. 7904613	-3. 9588307
C	4. 23758664	-3. 2237684	3. 28390683	H	-1. 222035	-2. 2507726	-4. 8142006
H	-1. 2215587	1. 74752637	-0. 6997279	H	0. 39040061	-2. 9910655	-4. 5312926
O	0. 21692013	-0. 3339707	3. 80705089	H	3. 02666136	-3. 9526447	-1. 2563121
O	-0. 533176	-2. 1610925	-2. 860689	H	2. 08879803	-3. 5121603	-2. 7170344
C	-0. 6060183	-2. 8200014	-4. 113609	H	3. 84428984	-3. 2544995	-2. 6697435
O	2. 75591673	-1. 9125565	-1. 5693908	H	2. 2996135	3. 20476457	1. 63522891
C	2. 92780863	-3. 2333617	-2. 0742796	H	1. 45389987	3. 74134161	0. 14228847
O	0. 7695112	1. 28493111	0. 80043045	H	1. 0069948	4. 41650747	1. 72462113

Table S6. Cartesian coordinates for the low-energy optimized conformers of **6a** at B3LYP-D3(BJ)/6-311G\* level.

conformer <b>6a_1</b>							
C	-1. 1992672	2. 9513075	-0. 7081099	C	5. 32923108	-2. 913279	1. 60780801
C	1. 09714471	1. 53186752	0. 27789785	H	-1. 8973542	1. 10595818	0. 0780239
C	1. 27141671	2. 97483704	-0. 2476128	O	0. 43023756	-3. 4914135	0. 75698565
C	-0. 0495053	3. 64958745	-0. 5589122	H	1. 91557132	3. 00334096	-1. 1338462
C	0. 07706527	-0. 7454484	-0. 1201831	H	-0. 4594978	-1. 3684157	-0. 8438425

C	1. 4756033	-1. 4177069	0. 07145415	H	3. 27101707	1. 49607524	0. 76832485
C	2. 60668301	-0. 4713876	0. 39899303	H	1. 138967	-2. 113241	2. 09799252
C	2. 42829928	0. 85279785	0. 51775487	H	3. 78098436	-1. 7929885	2. 55946209
C	1. 4402932	-2. 5405264	1. 13429674	H	4. 25705084	-1. 5115236	-0. 4488722
C	2. 80057492	-3. 2576063	1. 29825631	H	4. 71991639	-0. 3778163	0. 81138517
C	3. 94557114	-2. 2506891	1. 57455868	H	-2. 2151512	1. 74251851	-2. 7042536
C	3. 96043237	-1. 1193561	0. 53273542	H	-0. 4963985	0. 62759708	-3. 8555418
C	0. 15600544	0. 71829561	-0. 6239136	H	-2. 9466436	-0. 6439712	-3. 0631187
C	-1. 2434469	1. 41149873	-0. 7453192	H	-2. 4523525	-1. 05405	-1. 4485577
C	-1. 7800527	0. 92210413	-2. 1228472	H	-3. 8850398	-0. 5665939	0. 4425082
N	-0. 5896384	0. 54189065	-2. 8497754	H	-6. 0757478	0. 21000876	1. 26748166
C	0. 55614584	0. 65753135	-2. 0896145	H	-7. 6080819	1. 4553224	-0. 2333086
O	1. 6785389	0. 65165932	-2. 562863	H	-6. 9421398	1. 91908795	-2. 5766794
C	-2. 8091559	-0. 2194003	-2. 0591037	H	-4. 7564191	1. 14803938	-3. 4239808
C	-4. 1575444	0. 23418032	-1. 5528586	H	-3. 3116379	3. 03742366	-0. 2890404
C	-4. 5461262	-0. 0251997	-0. 2316568	H	-2. 5641344	4. 61336363	-0. 3546068
C	-5. 7834814	0. 4143687	0. 24064089	H	-2. 8549193	3. 72549735	-1. 8631197
C	-6. 6440628	1. 11484549	-0. 6021004	H	0. 93785558	5. 42411925	-1. 268107
C	-6. 2691169	1. 37563107	-1. 9184834	H	-0. 8051606	5. 57141685	-1. 2651456
C	-5. 0319739	0. 93764063	-2. 3929028	H	0. 07759736	5. 63288744	0. 27383219
C	-2. 5515821	3. 62204776	-0. 817548	H	1. 31700268	3. 77429737	1. 53243909
C	0. 03665216	5. 15082227	-0. 707847	H	-0. 9057884	-1. 7329443	1. 24069484
O	1. 92309876	3. 74597681	0. 77238151	H	2. 5400074	-2. 9831217	4. 09764996
H	0. 64008406	1. 60593046	1. 27771573	H	1. 05000224	-3. 8882857	3. 67945363
O	-0. 7079264	-0. 7871424	1. 08043074	H	2. 40266635	-4. 7007732	4. 49565387
H	1. 71947414	-1. 8621406	-0. 9051999	H	3. 55839346	-4. 769091	0. 31474701
C	2. 72925011	-4. 3150584	2. 42240955	H	5. 5761909	-3. 3834746	0. 65033655
O	3. 17043132	-5. 4533777	2. 2233856	H	6. 10529236	-2. 1706367	1. 82359998
C	2. 13831728	-3. 9390501	3. 75621958	H	5. 38622595	-3. 6776495	2. 38875553
O	3. 04875215	-3. 96788	0. 06589603	H	0. 84530324	-4. 0405354	0. 0567109

conformer **6a** 2

C	-1. 2012626	3. 28350003	0. 20750737	C	4. 62334229	-3. 3575466	2. 29060952
C	0. 87221228	1. 5602563	1. 20472067	H	-2. 1082536	1. 40289136	0. 60589611
C	1. 19445126	3. 04654955	0. 93108282	O	-0. 1659869	-3. 4100684	0. 83681896
C	-0. 0388434	3. 8602923	0. 59180975	H	1. 93626425	3. 15470065	0. 13156588
C	-0. 2378896	-0. 5448255	0. 36170324	H	-0. 7308519	-1. 013501	-0. 4965012
C	1. 08197533	-1. 3494262	0. 59515355	H	2. 96711566	1. 27972816	1. 91303379
C	2. 22523021	-0. 5547189	1. 18220956	H	0. 46299198	-2. 3025839	2. 44247084
C	2. 11999379	0. 74917357	1. 47992898	H	3. 04765384	-2. 2647949	3. 22919379
C	0. 8494722	-2. 608001	1. 46302373	H	3. 89390306	-1. 5922698	0. 36772351
C	2. 13253368	-3. 4483226	1. 66113911	H	4. 27644386	-0. 6933282	1. 82836474
C	3. 29850001	-2. 5875343	2. 20961868	H	-2. 0363956	2. 47560502	-2. 0451313
C	3. 50917268	-1. 3228726	1. 36006119	H	-0. 2910819	1. 36051884	-3. 1755559
C	-0. 0041322	0. 96336576	0. 0925208	H	-2. 5564289	-0. 4852903	-1. 4024379
C	-1. 3324183	1. 77573126	-0. 0735861	H	-3. 7116468	0. 79328046	-1. 1151429
C	-1. 7278522	1. 54276481	-1. 559646	H	-4. 7686386	2. 02140359	-3. 0037103

N	-0.4890452	1.1691472	-2.1995436	H	-5.4963128	1.8822235	-5.3578795
C	0.56397214	1.07569734	-1.3144716	H	-4.4767717	0.21536272	-6.8847082
O	1.73193521	1.03377003	-1.65749	H	-2.7179652	-1.3200944	-6.0479802
C	-2.8543456	0.51158251	-1.7404254	H	-1.9746645	-1.1960962	-3.6972132
C	-3.3217738	0.41762698	-3.1754976	H	-3.3499887	3.45112463	0.29007761
C	-4.3118917	1.28363247	-3.6593281	H	-2.5249633	4.93603305	0.70794955
C	-4.7261069	1.20922371	-4.9900195	H	-2.5925865	4.41890001	-0.9917097
C	-4.1534658	0.27270831	-5.8486296	H	1.1190074	5.64241876	0.26140974
C	-3.165784	-0.5904058	-5.3782095	H	-0.6049303	5.91988379	0.13981671
C	-2.7502811	-0.5184691	-4.048083	H	0.1274398	5.67798353	1.73703112
C	-2.4819201	4.07059663	0.03938828	H	1.0889572	3.55909379	2.81196767
C	0.15268295	5.35600121	0.69131361	H	-1.4412348	-1.6224823	1.45074284
O	1.77070949	3.60611806	2.12014849	H	1.55921754	-3.5609691	4.42473383
H	0.30538881	1.52346388	2.14890961	H	0.0753025	-4.2743343	3.71518176
O	-1.153787	-0.6861582	1.45735531	H	1.26786233	-5.3015605	4.53898746
H	1.40951977	-1.6659058	-0.4065362	H	2.90480163	-4.8575688	0.54583632
C	1.8615127	-4.6479664	2.59626694	H	4.95169846	-3.7032996	1.3049823
O	2.25034158	-5.777285	2.2745794	H	5.41408756	-2.7188489	2.69944217
C	1.14147618	-4.4224302	3.90022201	H	4.53839839	-4.2285117	2.94756558
O	2.47928026	-3.9908829	0.36872257	H	0.29465308	-3.8840003	0.11064877

conformer **6a\_3**

C	-1.3258202	2.79404439	-1.0537288	C	5.51826772	-2.7602971	1.11814219
C	1.13197974	1.51434639	-0.2927918	H	-1.8421968	1.19699153	0.24563055
C	1.18498212	2.78272292	-1.1769405	O	0.54775706	-3.2703894	1.39608113
C	-0.169891	3.44821123	-1.3156973	H	1.58063292	2.56855604	-2.1772486
C	0.03567177	-0.7454691	0.05361509	H	-0.6482655	-1.4787805	-0.3871676
C	1.43708516	-1.4355341	0.0892337	H	3.36623752	1.45059264	-0.228163
C	2.61756958	-0.501009	-0.0360023	H	1.52290373	-1.6790569	2.24346088
C	2.47837621	0.82581987	-0.1797415	H	4.19729625	-1.3918916	2.08833285
C	1.61721276	-2.310671	1.3523204	H	4.05424808	-1.7809918	-0.9426326
C	2.9782661	-3.0426142	1.39128692	H	4.77155223	-0.4301298	-0.0784392
C	4.15859678	-2.0553702	1.21375105	H	-2.7440646	1.24139374	-2.4811227
C	3.96628955	-1.1742902	-0.0318145	H	-1.3189147	-0.1821762	-3.688259
C	0.01199643	0.56993723	-0.7646358	H	-3.5404435	-1.1325339	-2.1426431
C	-1.3793025	1.28773876	-0.7424917	H	-2.7252622	-1.1985239	-0.609417
C	-2.1996888	0.54262616	-1.8359304	H	-3.7266853	-0.2154768	1.3686006
N	-1.1936045	-0.0473331	-2.6915682	H	-5.6974628	0.83327876	2.41615345
C	0.08773634	0.17499431	-2.2313557	H	-7.5108622	1.77329908	1.00932089
O	1.08483375	0.02029062	-2.914834	H	-7.3490606	1.65597865	-1.4625695
C	-3.1974039	-0.5032869	-1.3098205	H	-5.3872869	0.60797506	-2.5317903
C	-4.4110324	0.11774949	-0.660656	H	-3.2821185	3.07431923	-0.1936816
C	-4.5151	0.18672184	0.73510571	H	-2.5721685	4.56057378	-0.7698401
C	-5.6270589	0.78152794	1.33266363	H	-3.2048771	3.3873768	-1.9412651
C	-6.6453005	1.31073766	0.54237525	H	0.63256198	5.00262383	-2.5668547
C	-6.5534757	1.2451097	-0.8463987	H	-1.0625371	5.23025626	-2.2048486
C	-5.442034	0.65157114	-1.4463007	H	0.14743178	5.54666091	-0.944742

C	-2. 6661027	3. 49423871	-0. 995574	H	2. 95510153	3. 54010039	-0. 8861061
C	-0. 1171753	4. 88590834	-1. 7761584	H	-0. 6477019	-1. 3675266	1. 76918465
O	2. 06147736	3. 73313722	-0. 5584551	H	1. 74851444	-3. 082159	4. 15101223
H	0. 9036352	1. 84646658	0. 73252785	H	3. 23459833	-3. 7737911	4. 83592755
O	-0. 4715824	-0. 4907848	1. 37075666	H	3. 29771279	-2. 183837	4. 06398103
H	1. 46436513	-2. 0856394	-0. 7981443	H	3. 50405834	-4. 7639033	0. 62546126
C	3. 13354531	-3. 8399773	2. 70543869	H	5. 56490983	-3. 435231	0. 25725823
O	3. 52055316	-5. 0142651	2. 66790891	H	6. 3243688	-2. 0263067	1. 00945795
C	2. 82927662	-3. 1688984	4. 01942455	H	5. 72961678	-3. 3421549	2. 02045911
O	2. 96803435	-4. 0030192	0. 31303881	H	0. 80522741	-3. 970558	0. 75791911
conformer <b>6a_4</b>							
C	-0. 8670375	3. 00686885	-0. 897031	C	4. 92689829	-3. 3604646	1. 96655057
C	1. 24040395	1. 41627561	0. 22624653	H	-1. 7759444	1. 30092167	-0. 0167537
C	1. 58711026	2. 78558487	-0. 4017723	O	0. 02278793	-3. 4771567	0. 97521631
C	0. 35073264	3. 58527801	-0. 7670278	H	2. 2275833	2. 6660804	-1. 2840496
C	-0. 0130313	-0. 7655989	-0. 0682434	H	-0. 5890587	-1. 3695071	-0. 7778762
C	1. 29999673	-1. 5691666	0. 2052468	H	3. 37862401	1. 17145887	0. 8008878
C	2. 51873914	-0. 7308751	0. 50987773	H	0. 83336852	-2. 0973963	2. 25655948
C	2. 48191134	0. 60934579	0. 54579373	H	3. 48025014	-2. 0230581	2. 78915311
C	1. 11587776	-2. 6134189	1. 33137979	H	4. 0694103	-1. 9947538	-0. 2124559
C	2. 38637332	-3. 4566654	1. 58711856	H	4. 61731946	-0. 8354876	0. 9887157
C	3. 6237529	-2. 5599096	1. 84162876	H	-1. 9813737	1. 79443075	-2. 8362533
C	3. 78980592	-1. 5088766	0. 73151799	H	-0. 3717466	0. 44006759	-3. 8833983
C	0. 23279166	0. 65110168	-0. 6465739	H	-2. 9468414	-0. 5296827	-3. 0677636
C	-1. 0795564	1. 48178256	-0. 8420673	H	-2. 5371732	-0. 8752431	-1. 4147828
C	-1. 6441856	0. 96911946	-2. 1991209	H	-3. 9386846	-0. 0858367	0. 40169827
N	-0. 4888313	0. 42353349	-2. 8768536	H	-6. 0533356	0. 96986298	1. 105477
C	0. 64945912	0. 46447085	-2. 0975077	H	-7. 4245719	2. 23561108	-0. 5283226
O	1. 77416021	0. 32301946	-2. 5445598	H	-6. 6729754	2. 43913744	-2. 8829167
C	-2. 7888254	-0. 0527158	-2. 090657	H	-4. 5616251	1. 38778252	-3. 6093655
C	-4. 0933029	0. 57245848	-1. 6573983	H	-2. 9647495	3. 33218614	-0. 5195874
C	-4. 5298636	0. 46130027	-0. 3304506	H	-2. 0560584	4. 81641896	-0. 6419733
C	-5. 7243582	1. 05916253	0. 07329452	H	-2. 4174514	3. 89304772	-2. 114523
C	-6. 4940803	1. 77130339	-0. 8442279	H	1. 50610112	5. 21451602	-1. 5602812
C	-6. 0708698	1. 88587391	-2. 1668274	H	-0. 2099428	5. 5446668	-1. 5515499
C	-4. 8761786	1. 28967886	-2. 5727443	H	0. 6902325	5. 57738679	-0. 0222754
C	-2. 1403483	3. 80885838	-1. 0599073	H	2. 89576313	4. 14624924	0. 08142877
C	0. 58824212	5. 06089781	-0. 9817641	H	-1. 1323235	-1. 5731997	1. 30693729
O	2. 3256484	3. 53309806	0. 57385964	H	2. 0758357	-2. 9759462	4. 35332743
H	0. 77753251	1. 61643043	1. 20580143	H	0. 51053381	-3. 7459047	3. 93931918
O	-0. 8367295	-0. 6626196	1. 1014748	H	1. 74537205	-4. 6405468	4. 85083761
H	1. 51806551	-2. 0972815	-0. 7351988	H	3. 00098087	-5. 1023676	0. 72738774
C	2. 17002323	-4. 4259089	2. 77063747	H	5. 14982209	-3. 9169006	1. 05030149
O	2. 49272613	-5. 6146874	2. 65685483	H	5. 77146538	-2. 6907093	2. 16273927
C	1. 58465221	-3. 9048304	4. 05726857	H	4. 87891652	-4. 072723	2. 79587599
O	2. 59374793	-4. 2674219	0. 41003848	H	0. 39803661	-4. 1084066	0. 32360898

conformer <b>6a_5</b>							
C	-1. 5634747	3. 09272101	-0. 5765344	C	5. 45932783	-2. 1131539	1. 86853719
C	0. 92740542	1. 93965791	0. 27592969	H	-2. 0576692	1. 46700992	0. 6984438
C	0. 947821	3. 20892351	-0. 6077335	O	0. 51305728	-2. 8641696	1. 96444328
C	-0. 4335734	3. 80610194	-0. 7927201	H	1. 38676863	3. 01422894	-1. 5938917
C	-0. 0704071	-0. 3664576	0. 59780791	H	-0. 7072494	-1. 133269	0. 14419527
C	1. 35936479	-0. 9900194	0. 68547621	H	3. 15875136	1. 98453837	0. 42007269
C	2. 49785739	-0. 0001241	0. 59803702	H	1. 37661897	-1. 2254949	2. 84232811
C	2. 300722	1. 31800903	0. 44095751	H	4. 038645	-0. 807587	2. 78286888
C	1. 53484423	-1. 8529832	1. 95742438	H	4. 02619805	-1. 2126419	-0. 2494356
C	2. 92758187	-2. 5176263	2. 0493004	H	4. 64600316	0. 17384897	0. 63362025
C	4. 06450972	-1. 4747815	1. 91064134	H	-2. 8390312	1. 48386232	-2. 0547394
C	3. 87608933	-0. 6079358	0. 65455876	H	-1. 325005	0. 07856998	-3. 1906999
C	-0. 1262667	0. 93978044	-0. 2329785	H	-2. 7662446	-1. 0369511	-0. 2961826
C	-1. 5507934	1. 58690108	-0. 2666279	H	-3. 9680123	0. 22250544	-0. 1499427
C	-2. 2900881	0. 80668007	-1. 3901678	H	-5. 6300601	0. 63220094	-1. 9605933
N	-1. 2265045	0. 25600358	-2. 1972515	H	-6. 9238411	-0. 3990686	-3. 7919951
C	0. 02503022	0. 53763905	-1. 6928396	H	-6. 1332159	-2. 4958154	-4. 854114
O	1. 05541974	0. 41892414	-2. 3325476	H	-4. 0343406	-3. 5645994	-4. 0770294
C	-3. 2745778	-0. 2484199	-0. 8589433	H	-2. 7246433	-2. 5479948	-2. 2477694
C	-4. 0845422	-0. 8863087	-1. 965278	H	-3. 6009561	3. 21188126	0. 12092235
C	-5. 2696689	-0. 2880486	-2. 4146406	H	-2. 9163277	4. 77114501	-0. 2772088
C	-6. 0041788	-0. 8671076	-3. 4504909	H	-3. 3865519	3. 66008649	-1. 583363
C	-5. 5602734	-2. 0453874	-4. 0478292	H	0. 31718839	5. 39744679	-2. 0289722
C	-4. 3813497	-2. 6461137	-3. 6106723	H	-1. 3923757	5. 55000682	-1. 6902945
C	-3. 6453959	-2. 0694511	-2. 5748466	H	-0. 2165909	5. 91585937	-0. 4135346
C	-2. 9386527	3. 72187605	-0. 5871951	H	2. 66757631	4. 05106768	-0. 2559424
C	-0. 438555	5. 2458784	-1. 2500768	H	-0. 7896781	-0. 9993431	2. 29534479
O	1. 7543288	4. 2016024	0. 03844039	H	1. 60054423	-2. 6106535	4. 76254547
H	0. 64583986	2. 26120672	1. 29139514	H	3. 09281764	-3. 2263535	5. 50415065
O	-0. 6295131	-0. 1202793	1. 8953697	H	3. 10585769	-1. 6372913	4. 72791228
H	1. 44869969	-1. 6402598	-0. 1977006	H	3. 56486051	-4. 2129005	1. 31051503
C	3. 07305839	-3. 3031247	3. 3717144	H	5. 57038516	-2. 7876767	1. 01324935
O	3. 51800347	-4. 4571792	3. 35352282	H	6. 23241991	-1. 3412272	1. 78599635
C	2. 68835094	-2. 6443616	4. 67075417	H	5. 66512063	-2. 6812621	2. 78084348
O	3. 00344311	-3. 480393	0. 97570798	H	0. 82909753	-3. 5523477	1. 33975577

conformer <b>6a_6</b>							
C	-1. 1392529	3. 29443144	-0. 2885199	C	4. 48378414	-3. 0775897	2. 88645899
C	0. 87799401	1. 69858931	0. 98376098	H	-2. 0950835	1. 51392655	0. 37128364
C	1. 24797522	3. 11084772	0. 47664706	O	-0. 2661684	-3. 2590707	1. 32208207
C	0. 03366946	3. 89735651	0. 01928635	H	1. 98582019	3. 06012218	-0. 3333042
C	-0. 2667318	-0. 4912912	0. 43431646	H	-0. 7459629	-1. 0691231	-0. 3631504
C	1. 03002909	-1. 2781316	0. 81277959	H	2. 94332865	1. 47455636	1. 78854827
C	2. 18001375	-0. 4290645	1. 30120457	H	0. 34586659	-1. 9357199	2. 76329993
C	2. 0991052	0. 90604001	1. 40240563	H	2. 91099112	-1. 8249342	3. 60436171
C	0. 74991555	-2. 3898844	1. 85093775	H	3. 84119826	-1. 6123045	0. 69790156

C	2.00831432	-3.2145117	2.207595	H	4.21169693	-0.5101044	2.01505871
C	3.17958921	-2.303503	2.65281809	H	-1.9722804	2.18178367	-2.4055274
C	3.44019414	-1.1875644	1.62748782	H	-0.2367384	0.88310324	-3.337276
C	0.00275125	0.95876527	-0.0407162	H	-2.5597871	-0.6429903	-1.3435407
C	-1.3034282	1.76498515	-0.3448549	H	-3.6916146	0.68528211	-1.2656351
C	-1.687515	1.32403889	-1.7853379	H	-4.6961504	1.64308505	-3.3317215
N	-0.4487589	0.83868972	-2.3468114	H	-5.3969268	1.17200462	-5.6509475
C	0.59081342	0.85776822	-1.4409229	H	-4.3959503	-0.723068	-6.8984759
O	1.7632265	0.75627287	-1.7567439	H	-2.6831503	-2.1535647	-5.8160892
C	-2.8325462	0.29846995	-1.8292615	H	-1.9672658	-1.6979978	-3.497686
C	-3.2836037	0.00264792	-3.2421234	H	-3.2862512	3.50466222	-0.2501923
C	-4.247684	0.80754676	-3.8642556	H	-2.440522	5.01833984	-0.0234178
C	-4.6465089	0.5454826	-5.1757787	H	-2.5022465	4.28093628	-1.6409158
C	-4.0842792	-0.5193489	-5.877398	H	1.20533832	5.60489516	-0.5544708
C	-3.1224511	-1.3234005	-5.2689355	H	-0.5150369	5.8890553	-0.6903387
C	-2.7223871	-1.0638491	-3.9575812	H	0.23444707	5.84506304	0.91620884
C	-2.4056711	4.07172212	-0.5714569	H	2.46267501	4.46216599	1.17924303
C	0.24183458	5.38978203	-0.0790506	H	-1.5163237	-1.388065	1.63130627
O	1.84745766	3.81944592	1.56926293	H	1.03303111	-4.5984097	5.30561723
H	0.29934346	1.82988167	1.91213142	H	1.36549652	-2.9003283	4.94009736
O	-1.2151736	-0.464364	1.50981676	H	-0.1164053	-3.6849137	4.30540524
H	1.36964896	-1.7457923	-0.1236118	H	2.76984187	-4.7923732	1.33826355
C	1.68745622	-4.2549186	3.30377678	H	4.82815637	-3.5756196	1.97420797
O	2.0584411	-5.4268091	3.16473378	H	5.27888416	-2.3994652	3.21558049
C	0.94147805	-3.8230012	4.53931403	H	4.36248153	-3.8366047	3.6652879
O	2.37511799	-3.9514738	1.02085768	H	0.20244915	-3.8425909	0.68670389

### conformer 6a\_7

C	-1.0858146	2.99853812	-0.9519438	C	5.25202763	-2.9377098	1.69590451
C	1.19876993	1.58910022	0.04242222	H	-1.8114939	1.33881025	0.16595294
C	1.41901549	2.91230389	-0.7245141	O	0.36852036	-3.4711577	0.94220369
C	0.11285468	3.62521236	-1.020355	H	1.97531125	2.75245437	-1.6547029
C	0.03409307	-0.6517693	0.07485095	H	-0.6304084	-1.3241247	-0.4751447
C	1.39679251	-1.4030907	0.18866767	H	3.38152544	1.46187178	0.45569652
C	2.58620009	-0.4886761	0.3684927	H	1.07918971	-2.0504144	2.25877572
C	2.48875639	0.85015345	0.32349046	H	3.75805579	-1.6968753	2.58904059
C	1.36412	-2.4886127	1.29406119	H	4.16058559	-1.6660069	-0.443542
C	2.71746691	-3.22842	1.45560166	H	4.71465355	-0.4611083	0.70933026
C	3.89028487	-2.2319429	1.63783174	H	-2.3619186	1.58911126	-2.6430449
C	3.91510074	-1.1868665	0.51332868	H	-0.8221873	0.20534192	-3.7606244
C	0.13746094	0.71632339	-0.6461434	H	-3.2818948	-0.7373454	-2.5962657
C	-1.22627	1.47640199	-0.7492364	H	-2.6191942	-1.004492	-1.0137167
C	-1.9180512	0.83187489	-1.9872901	H	-3.7960467	-0.2504824	0.95404782
N	-0.8232635	0.27381963	-2.7488742	H	-5.8183304	0.76763196	1.93291303
C	0.39350584	0.42099617	-2.115998	H	-7.427873	1.98663487	0.49272544
O	1.46613996	0.27595131	-2.6737681	H	-7.0113974	2.17968232	-1.9441653
C	-2.9980057	-0.2168353	-1.6711981	H	-4.996924	1.16572847	-2.9456851

C	-4. 2445213	0. 38550695	-1. 0692107	H	-3. 1367586	3. 30142655	-0. 3632499
C	-4. 4926119	0. 27884107	0. 3060886	H	-2. 3073888	4. 79088504	-0. 739353
C	-5. 6339506	0. 8549758	0. 86516264	H	-2. 800212	3. 71266427	-2. 0597169
C	-6. 5380589	1. 54038645	0. 05626258	H	1. 12583392	5. 19285743	-2. 08983
C	-6. 3032007	1. 64900496	-1. 3129055	H	-0. 5971616	5. 46466152	-1. 9561913
C	-5. 1623209	1. 07413052	-1. 8744209	H	0. 43568476	5. 69932392	-0. 5315167
C	-2. 4003779	3. 74360675	-1. 0423363	H	1. 66455285	4. 02917615	0. 86296563
C	0. 27020738	5. 07557374	-1. 4153945	H	0. 04261719	-0. 0005148	1. 93258752
O	2. 2122293	3. 77647668	0. 10054145	H	1. 78289601	-5. 9139567	1. 94502209
H	0. 82474028	1. 86605718	1. 04110228	H	3. 57069312	-5. 9002577	2. 11271246
O	-0. 5817819	-0. 4853682	1. 36044481	H	2. 53655734	-6. 0729286	3. 54462117
H	1. 54175343	-1. 9063239	-0. 779203	H	2. 0526084	-4. 3618484	0. 03233056
C	2. 59793331	-4. 0969774	2. 73089961	H	5. 46918521	-3. 4755731	0. 76714035
O	2. 47435183	-3. 5925898	3. 8511403	H	6. 05516944	-2. 2097836	1. 8548963
C	2. 62402937	-5. 594729	2. 56479365	H	5. 29354298	-3. 6546275	2. 52178557
O	2. 93665602	-4. 0225016	0. 28507028	H	-0. 4942542	-3. 0695869	1. 16863581

conformer **6a\_8**

C	-2. 354825	2. 12734392	-1. 0019798	C	6. 20630646	-0. 5883971	0. 3198943
C	0. 46861352	1. 82997365	-0. 6431674	H	-2. 0805853	0. 70546754	0. 55524017
C	-0. 0432682	2. 86287947	-1. 6725539	O	1. 86444161	-2. 762446	1. 37889509
C	-1. 5470482	3. 04361351	-1. 5877624	H	0. 23244784	2. 59729728	-2. 6999981
C	0. 28656526	-0. 5551719	0. 18575221	H	-0. 1908725	-1. 5249499	0. 01822546
C	1. 8110449	-0. 7919668	-0. 0407486	H	2. 57855774	2. 48692547	-0. 9554061
C	2. 57102683	0. 44986435	-0. 4448346	H	2. 3018224	-0. 8771446	2. 09503453
C	1. 96930971	1. 62544577	-0. 6903266	H	4. 6344006	0. 34424634	1. 42873038
C	2. 47269789	-1. 4688752	1. 18681873	H	4. 21326289	-0. 376598	-1. 5140948
C	3. 99687873	-1. 6882244	1. 00797621	H	4. 54452306	1. 21672228	-0. 8522666
C	4. 71251847	-0. 3752974	0. 60128787	H	-3. 3879197	-0. 0146617	-1. 9004701
C	4. 05563785	0. 25897628	-0. 6327813	H	-1. 7846044	-1. 1225298	-3. 2177703
C	-0. 3232348	0. 51505128	-0. 7533227	H	-3. 3115321	-2. 4039535	-1. 1464388
C	-1. 8495819	0. 75702014	-0. 5138968	H	-2. 223404	-1. 9942938	0. 14340712
C	-2. 539815	-0. 3865738	-1. 3145258	H	-3. 0642144	-1. 1052935	2. 22582176
N	-1. 549751	-0. 7761349	-2. 2942619	H	-5. 006711	-0. 5254907	3. 6306179
C	-0. 3620069	-0. 0913324	-2. 1478577	H	-7. 2649324	-0. 3298886	2. 62425805
O	0. 50303389	-0. 0453361	-3. 0044825	H	-7. 5785265	-0. 7245318	0. 19625162
C	-3. 0247123	-1. 5817408	-0. 4763695	H	-5. 6499275	-1. 3091179	-1. 2278675
C	-4. 2128829	-1. 2481215	0. 39291971	H	-4. 117107	1. 94914342	0. 22596015
C	-4. 0484692	-1. 0273223	1. 76714258	H	-4. 0539529	3. 45087577	-0. 6609381
C	-5. 1438414	-0. 6968225	2. 56593465	H	-4. 4453785	1. 94848748	-1. 520675
C	-6. 4125103	-0. 5861431	2. 00051452	H	-1. 5373226	4. 51152431	-3. 1596945
C	-6. 5879228	-0. 8073859	0. 63602892	H	-3. 1232617	4. 27357208	-2. 4633223
C	-5. 4940012	-1. 1373936	-0. 1651243	H	-1. 8947566	5. 16960488	-1. 546717
C	-3. 8222486	2. 38423413	-0. 7346479	H	1. 36915969	4. 18360699	-1. 8982416
C	-2. 059055	4. 31892365	-2. 2154428	H	0. 47175931	0. 59578593	1. 77324832
O	0. 55427171	4. 12895128	-1. 3712201	H	5. 39215503	-3. 7522956	3. 5143917
H	0. 28812577	2. 26644215	0. 35217215	H	4. 23406745	-4. 2677749	2. 27165804

O	0. 00508247	-0. 2333909	1. 5552302	H	5. 88049584	-3. 7209684	1. 80844384
H	1. 88256703	-1. 484627	-0. 8928859	H	3. 46945719	-3. 3267556	0. 1198743
C	4. 54274562	-2. 1515763	2. 38014627	H	6. 36653155	-1. 2770013	-0. 5163033
O	4. 5612045	-1. 4000212	3. 3595362	H	6. 68840014	0. 36198732	0. 06584229
C	5. 04345981	-3. 5686028	2. 49406	H	6. 72264163	-0. 9920363	1. 19640287
O	4. 19206094	-2. 6771125	-0. 0084869	H	1. 00290828	-2. 5886647	1. 80916517

Table S7. Important thermodynamic parameters of the B3LYP-D3(BJ)/6-311G\* optimized conformers of **1a** in the gas phase

Conformers	C <sup>a</sup> (Hartree)	E <sup>b</sup> (Hartree)	G <sup>c</sup> (Hartree)
<b>1a_10</b>	0. 565275	-1668. 726258	-1668. 160983
<b>1a_7</b>	0. 564920	-1668. 721431	-1668. 160121
<b>1a_9</b>	0. 564836	-1668. 724784	-1668. 159948
<b>1a_1</b>	0. 563665	-1668. 722845	-1668. 159180
<b>1a_4</b>	0. 563411	-1668. 722587	-1668. 159176
<b>1a_2</b>	0. 562082	-1668. 721177	-1668. 159095
<b>1a_8</b>	0. 564031	-1668. 723115	-1668. 159084
<b>1a_5</b>	0. 562724	-1668. 721431	-1668. 158707
<b>1a_12</b>	0. 563580	-1668. 722130	-1668. 158550
<b>1a_3</b>	0. 563554	-1668. 721435	-1668. 157880
<b>1a_6</b>	0. 563658	-1668. 721431	-1668. 157137
<b>1a_11</b>	0. 561775	-1668. 717682	-1668. 155907

<sup>a</sup>Thermal correction to Gibbs free energy; <sup>b</sup>Electronic energy; <sup>c</sup>Gibbs free energy (E + C).

Table S8. Conformational analysis of the B3LYP-D3(BJ)/6-311G\* optimized conformers of **1a** in the gas phase (T=298.15 K)

Conformers	ΔG (kcal/mol) <sup>a</sup>	Population <sup>b</sup>
<b>1a_10</b>	0. 000000	39. 63%
<b>1a_7</b>	0. 540908	15. 89%
<b>1a_9</b>	0. 649466	13. 23%
<b>1a_1</b>	1. 131388	5. 86%
<b>1a_4</b>	1. 133898	5. 84%
<b>1a_2</b>	1. 184726	5. 36%
<b>1a_8</b>	1. 191628	5. 30%
<b>1a_5</b>	1. 428197	3. 55%
<b>1a_12</b>	1. 526715	3. 01%
<b>1a_3</b>	1. 947142	1. 48%
<b>1a_6</b>	2. 413377	0. 67%
<b>1a_11</b>	3. 185205	0. 18%

<sup>a</sup>The relative Gibbs free energy; <sup>b</sup>The Boltzmann distribution of each conformer.

Table S9. Important thermodynamic parameters of the B3LYP/6-311G\* optimized conformers of **2a** in the gas phase

Conformers	C <sup>a</sup> (Hartree)	E <sup>b</sup> (Hartree)	G <sup>c</sup> (Hartree)
<b>2a_3</b>	0. 561115	-1671. 078096	-1670. 516981
<b>2a_2</b>	0. 559030	-1671. 075902	-1670. 516872
<b>2a_1</b>	0. 560529	-1671. 076880	-1670. 516352
<b>2a_4</b>	0. 561076	-1671. 077314	-1670. 516238
<b>2a_7</b>	0. 559563	-1671. 075752	-1670. 516190
<b>2a_8</b>	0. 559917	-1671. 075183	-1670. 515266
<b>2a_6</b>	0. 559284	-1671. 073025	-1670. 513741
<b>2a_5</b>	0. 557378	-1671. 070645	-1670. 513268

<sup>a</sup>Thermal correction to Gibbs free energy; <sup>b</sup>Electronic energy; <sup>c</sup>Gibbs free energy (E + C).

Table S10. Conformational analysis of the B3LYP/6-311G\* optimized conformers of **2a** in the gas phase (T=298.15 K)

Conformers	ΔG (kcal/mol) <sup>a</sup>	Population <sup>b</sup>
<b>2a_3</b>	0. 0000000	28. 52%
<b>2a_2</b>	0. 0683978	25. 41%
<b>2a_1</b>	0. 3946994	14. 64%
<b>2a_4</b>	0. 4662347	12. 98%
<b>2a_7</b>	0. 4963549	12. 33%
<b>2a_8</b>	1. 0761676	4. 63%
<b>2a_6</b>	2. 0331097	0. 92%
<b>2a_5</b>	2. 3299186	0. 56%

<sup>a</sup>The relative Gibbs free energy; <sup>b</sup>The Boltzmann distribution of each conformer.

Table S11. Important thermodynamic parameters of the B3LYP/6-311G\* optimized conformers of **3a** in the gas phase

Conformers	C <sup>a</sup> (Hartree)	E <sup>b</sup> (Hartree)	G <sup>c</sup> (Hartree)
<b>3a_4</b>	0.5921770	-1823.7932322	-1823.2010550
<b>3a_2</b>	0.5923070	-1823.7932337	-1823.2009260
<b>3a_1</b>	0.5948740	-1823.7952335	-1823.2003600
<b>3a_3</b>	0.5948770	-1823.7952335	-1823.2003560
<b>3a_5</b>	0.5916870	-1823.7932322	-1823.1985720
<b>3a_6</b>	0.5912700	-1823.7932322	-1823.1979380
<b>3a_7</b>	0.5937350	-1823.7911947	-1823.1974600
<b>3a_8</b>	0.5886950	-1823.7834799	-1823.1947850

<sup>a</sup>Thermal correction to Gibbs free energy; <sup>b</sup>Electronic energy; <sup>c</sup>Gibbs free energy (E + C).

Table S12. Conformational analysis of the B3LYP/6-311G\* optimized conformers of **3a** in the gas phase (T=298.15 K)

Conformers	ΔG (kcal/mol) <sup>a</sup>	Population <sup>b</sup>
<b>3a_4</b>	0.000000	33.79%
<b>3a_2</b>	0.080948	29.47%
<b>3a_1</b>	0.436115	16.17%
<b>3a_3</b>	0.438625	16.11%
<b>3a_5</b>	1.558090	2.43%
<b>3a_6</b>	1.955927	1.24%
<b>3a_7</b>	2.255873	0.75%
<b>3a_8</b>	3.934444	0.04%

<sup>a</sup>The relative Gibbs free energy; <sup>b</sup>The Boltzmann distribution of each conformer.

Table S13. Important thermodynamic parameters of the B3LYP/6-311G\* optimized conformers of **4a** in the gas phase

Conformers	C <sup>a</sup> (Hartree)	E <sup>b</sup> (Hartree)	G <sup>c</sup> (Hartree)
<b>4a_1</b>	0. 616836	-1863. 104872	-1862. 488036
<b>4a_4</b>	0. 618558	-1863. 105978	-1862. 48742
<b>4a_3</b>	0. 617827	-1863. 104635	-1862. 486808
<b>4a_2</b>	0. 614872	-1863. 101431	-1862. 48656
<b>4a_5</b>	0. 61573	-1863. 101164	-1862. 485434
<b>4a_6</b>	0. 6176	-1863. 100993	-1862. 483393

<sup>a</sup>Thermal correction to Gibbs free energy; <sup>b</sup>Electronic energy; <sup>c</sup>Gibbs free energy (E + C).

Table S14. Conformational analysis of the B3LYP/6-311G\* optimized conformers of **4a** in the gas phase (T=298.15 K)

Conformers	ΔG (kcal/mol) <sup>a</sup>	Population <sup>b</sup>
<b>4a_1</b>	0. 000000	48. 25%
<b>4a_4</b>	0. 386542	25. 12%
<b>4a_3</b>	0. 770574	13. 13%
<b>4a_2</b>	0. 926194	10. 10%
<b>4a_5</b>	1. 632763	3. 06%
<b>4a_6</b>	2. 913496	0. 35%

<sup>a</sup>The relative Gibbs free energy; <sup>b</sup>The Boltzmann distribution of each conformer.

Table S15. Important thermodynamic parameters of the B3LYP/6-311G\* optimized conformers of **5a** in the gas phase

Conformers	C <sup>a</sup> (Hartree)	E <sup>b</sup> (Hartree)	G <sup>c</sup> (Hartree)
<b>5a_4</b>	0. 645210	-1902. 421409	-1901. 776199
<b>5a_1</b>	0. 644777	-1902. 420877	-1901. 776100
<b>5a_3</b>	0. 641933	-1902. 417132	-1901. 775200
<b>5a_7</b>	0. 645770	-1902. 420382	-1901. 774612
<b>5a_2</b>	0. 644733	-1902. 418849	-1901. 774115
<b>5a_8</b>	0. 643599	-1902. 420382	-1901. 773501
<b>5a_6</b>	0. 643022	-1902. 416296	-1901. 773275
<b>5a_5</b>	0. 642424	-1902. 415373	-1901. 772949

<sup>a</sup>Thermal correction to Gibbs free energy; <sup>b</sup>Electronic energy; <sup>c</sup>Gibbs free energy (E + C).

Table S16. Conformational analysis of the B3LYP/6-311G\* optimized conformers of **5a** in the gas phase (T=298.15 K)

Conformers	ΔG (kcal/mol) <sup>a</sup>	Population <sup>b</sup>
<b>5a_4</b>	0. 000000	37. 35%
<b>5a_1</b>	0. 062123	33. 63%
<b>5a_3</b>	0. 626875	12. 96%
<b>5a_7</b>	0. 995847	6. 95%
<b>5a_2</b>	1. 307716	4. 10%
<b>5a_8</b>	1. 693003	2. 14%
<b>5a_6</b>	1. 834819	1. 68%
<b>5a_5</b>	2. 039385	1. 19%

<sup>a</sup>The relative Gibbs free energy; <sup>b</sup>The Boltzmann distribution of each conformer.

Table S17. Important thermodynamic parameters of the B3LYP/6-311G\* optimized conformers of **6a** in the gas phase

Conformers	C <sup>a</sup> (Hartree)	E <sup>b</sup> (Hartree)	G <sup>c</sup> (Hartree)
<b>6a_9</b>	0. 531742	-1594. 601499	-1594. 069757
<b>6a_1</b>	0. 530085	-1594. 599328	-1594. 069243
<b>6a_2</b>	0. 529057	-1594. 598179	-1594. 069122
<b>6a_3</b>	0. 530369	-1594. 597597	-1594. 067228
<b>6a_5</b>	0. 529503	-1594. 596613	-1594. 067110
<b>6a_10</b>	0. 530592	-1594. 597539	-1594. 066947
<b>6a_4</b>	0. 531255	-1594. 598039	-1594. 066783
<b>6a_6</b>	0. 530253	-1594. 596916	-1594. 066662
<b>6a_7</b>	0. 528903	-1594. 594854	-1594. 065952
<b>6a_8</b>	0. 529554	-1594. 594252	-1594. 064698

<sup>a</sup>Thermal correction to Gibbs free energy; <sup>b</sup>Electronic energy; <sup>c</sup>Gibbs free energy (E + C).

Table S18. Conformational analysis of the B3LYP/6-311G\* optimized conformers of **6a** in the gas phase (T=298.15 K)

Conformers	ΔG (kcal/mol) <sup>a</sup>	Population <sup>b</sup>
<b>6a_9</b>	0. 000000	42. 14%
<b>6a_1</b>	0. 322537	24. 44%
<b>6a_2</b>	0. 398464	21. 50%
<b>6a_3</b>	1. 586955	2. 89%
<b>6a_5</b>	1. 661000	2. 55%
<b>6a_10</b>	1. 763283	2. 14%
<b>6a_4</b>	1. 866194	1. 80%
<b>6a_6</b>	1. 942122	1. 59%
<b>6a_7</b>	2. 387649	0. 75%
<b>6a_8</b>	3. 174538	0. 20%

<sup>a</sup>The relative Gibbs free energy; <sup>b</sup>The Boltzmann distribution of each conformer.