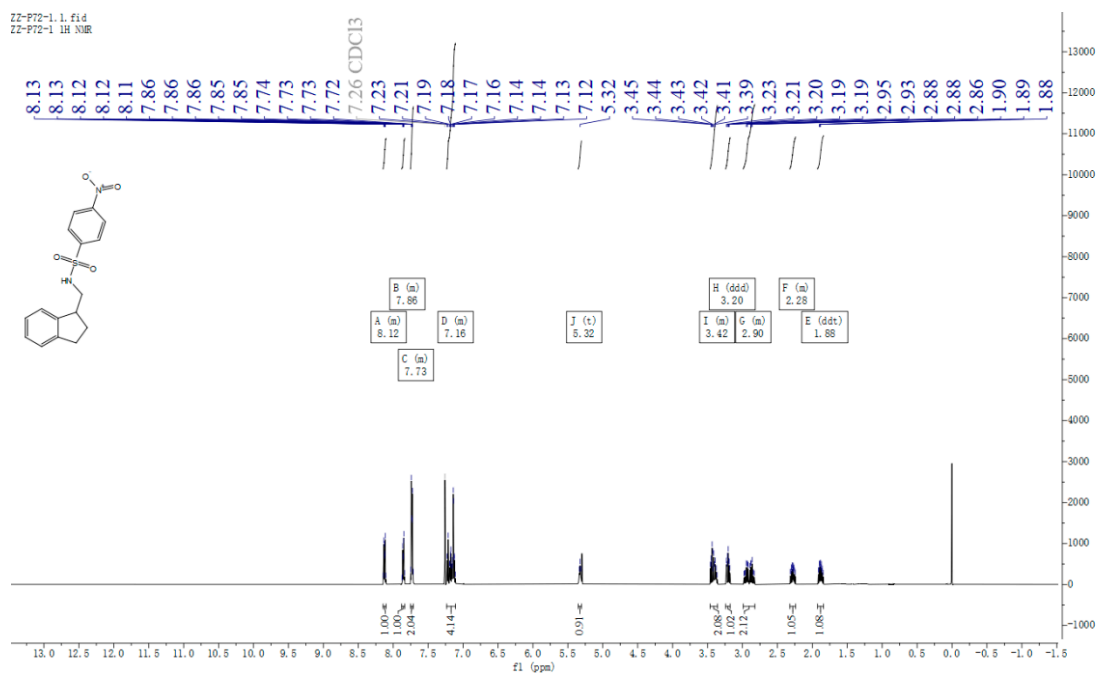


## Table of Contents

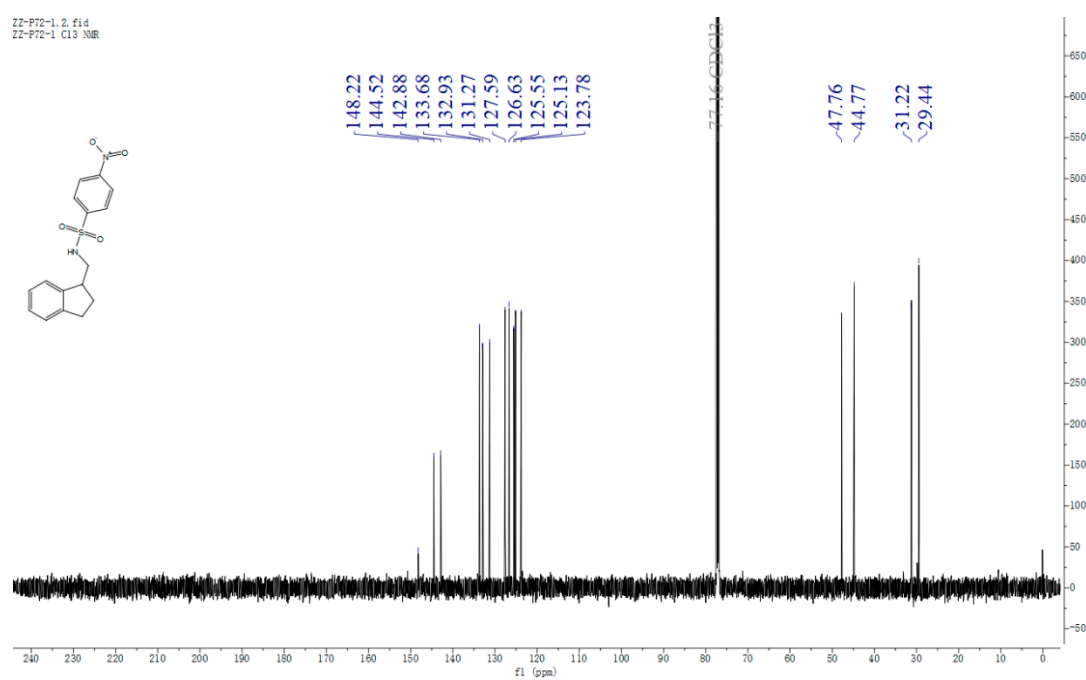
1. Figure S1 to Figure S22 The  $^1\text{H}$  spectrum and  $^{13}\text{C}$  spectrum of **rac-1a** and **rac-1o-x**.
2. Figure S23 to Figure S68 The  $^1\text{H}$  spectrum and  $^{13}\text{C}$  spectrum of **2a-x**.
3. Figure S69 to Figure S75 The  $^1\text{H}$  spectrum and  $^{13}\text{C}$  spectrum of **3**, **5**, **6** and **7**.
4. Figure S76 and Figure S77 The HPLC data of **1a** and **2a** of entry 6 in Table 1.
5. Figure S78 to Figure S103 The HPLC Data of **1ab-an** and **2b-n** in Scheme 1.
6. Figure S104 to Figure S123 The HPLC Data of **1o-x** and **2o-x** in Scheme 2.
7. Figure S124 to Figure S126 The HPLC data of **3**, **1v** and **4** in Scheme 3.

### 1 The $^1\text{H}$ spectrum and $^{13}\text{C}$ spectrum of **rac-1a** and **rac-1o-x**.

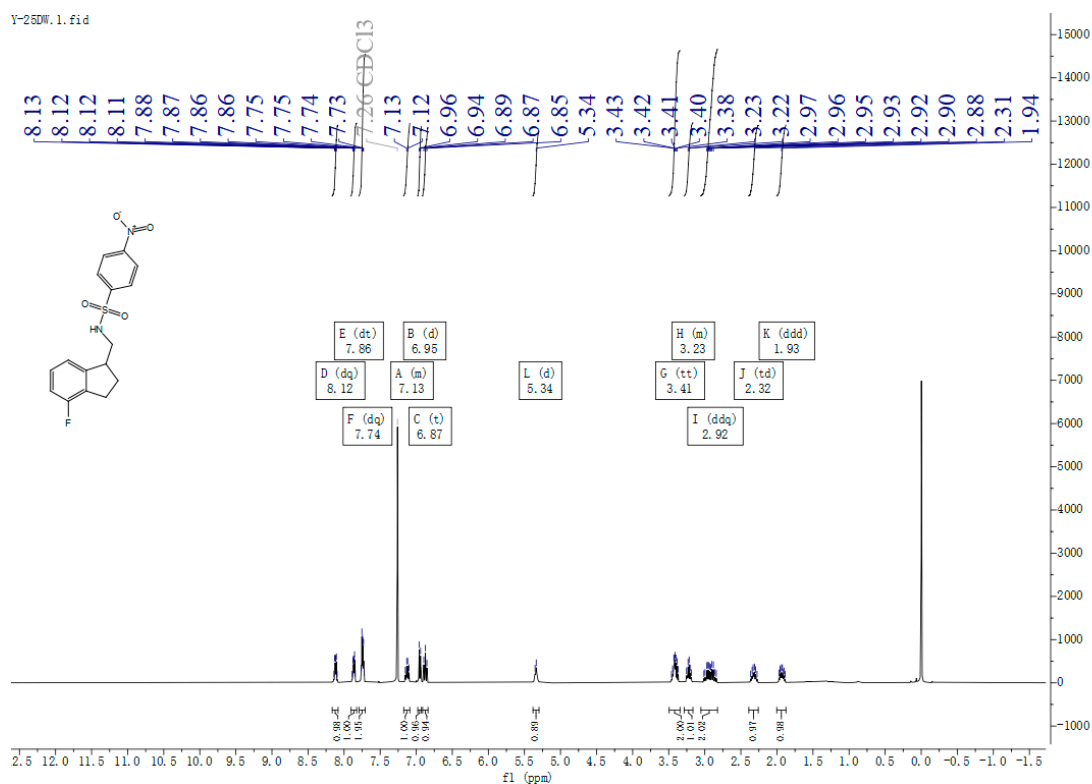


**Figure S1.** The  $^1\text{H}$  spectrum (500MHz, CDCl<sub>3</sub>) of **rac-1a**.

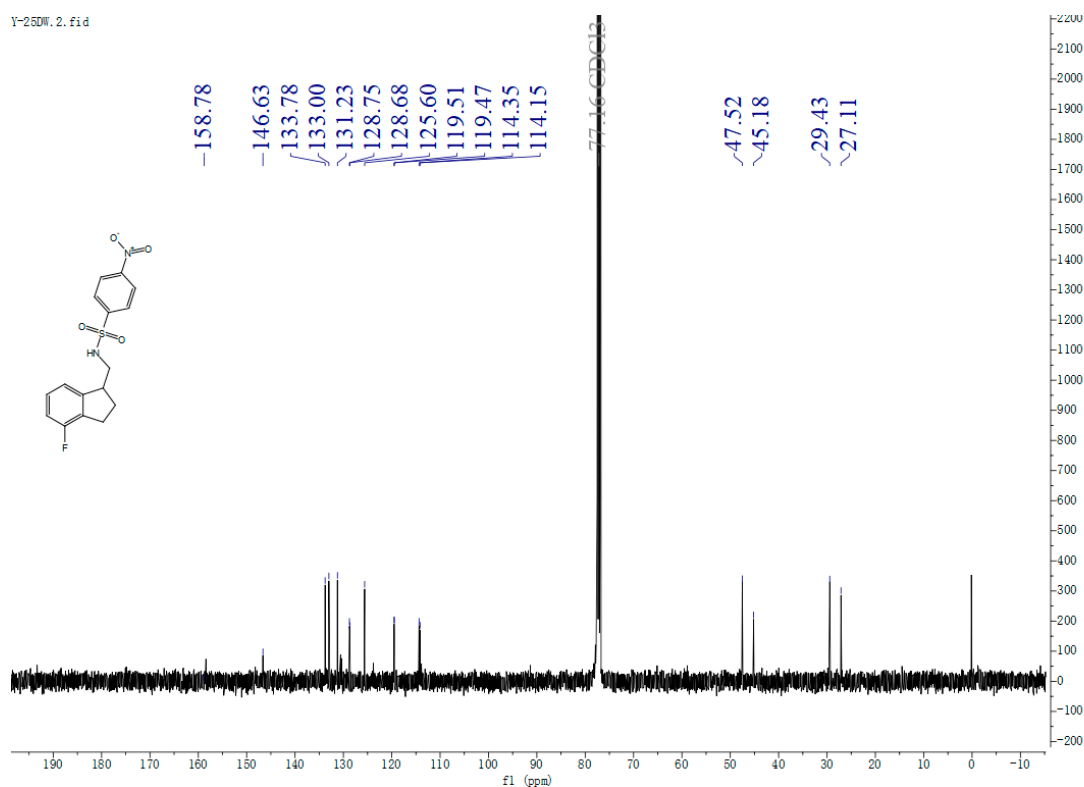
ZZ-P72-1.2.fid  
ZZ-P72-1 C13 NMR



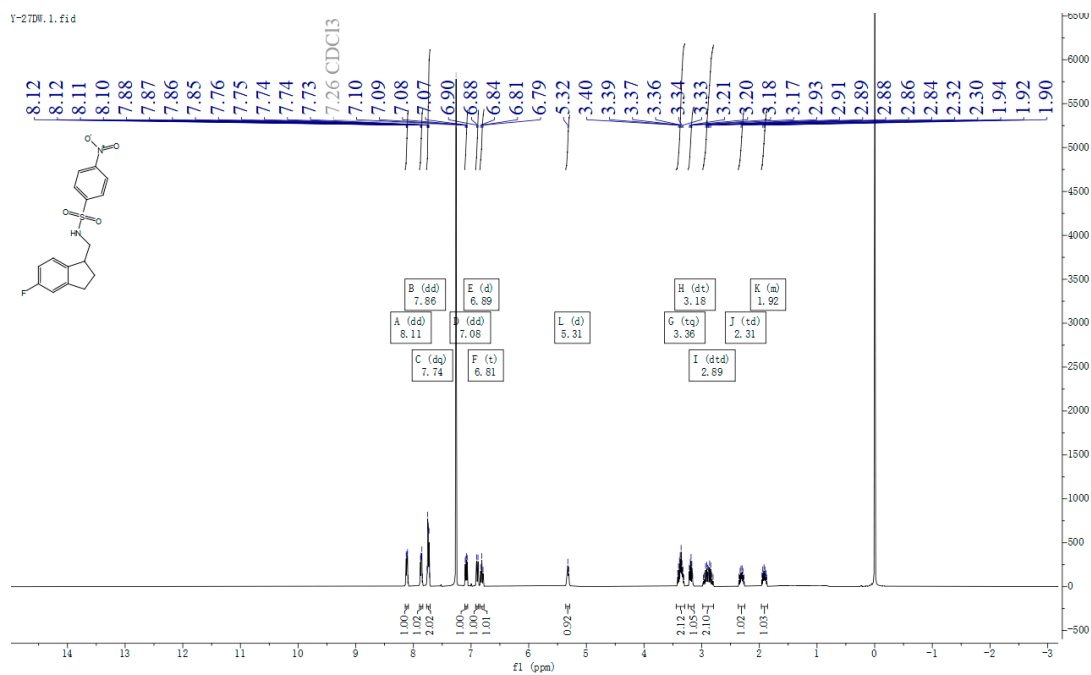
**Figure S2.** The <sup>13</sup>C spectrum (126MHz, CDCl<sub>3</sub>) of **rac-1a**.



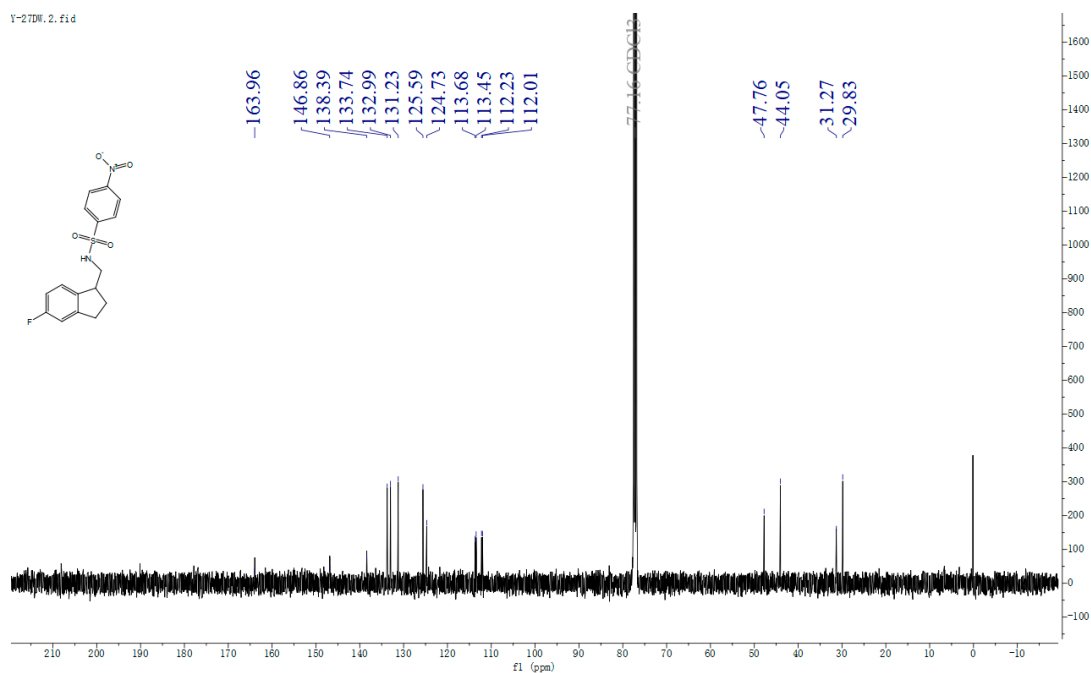
**Figure S3.** The  $^1\text{H}$  spectrum (400MHz,  $\text{CDCl}_3$ ) of *rac-10*.



**Figure S4.** The  $^{13}\text{C}$  spectrum (101MHz,  $\text{CDCl}_3$ ) of *rac-10*.

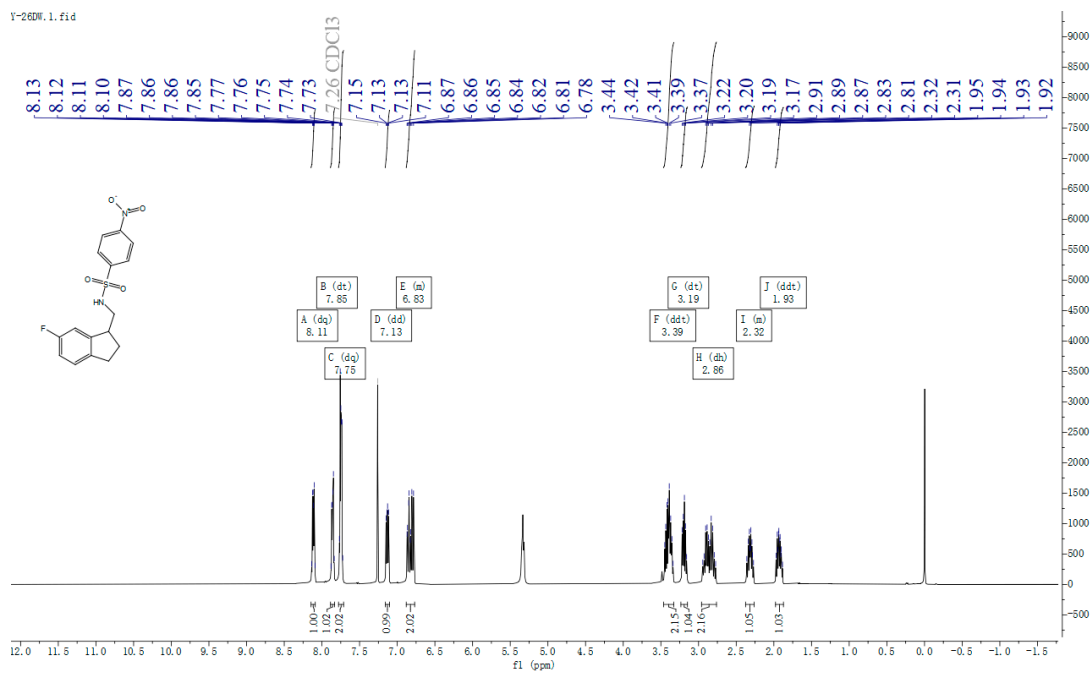


**Figure S5.** The <sup>1</sup>H spectrum (400MHz, CDCl<sub>3</sub>) of *rac-1p*.

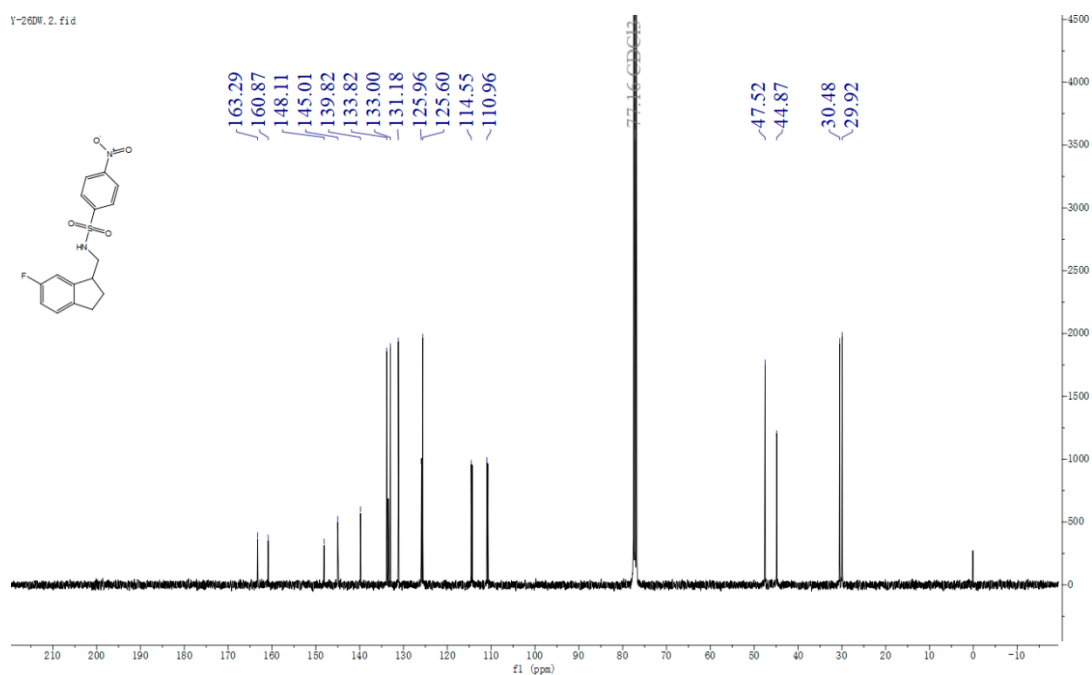


**Figure S6.** The <sup>13</sup>C spectrum (101MHz, CDCl<sub>3</sub>) of *rac-1p*.

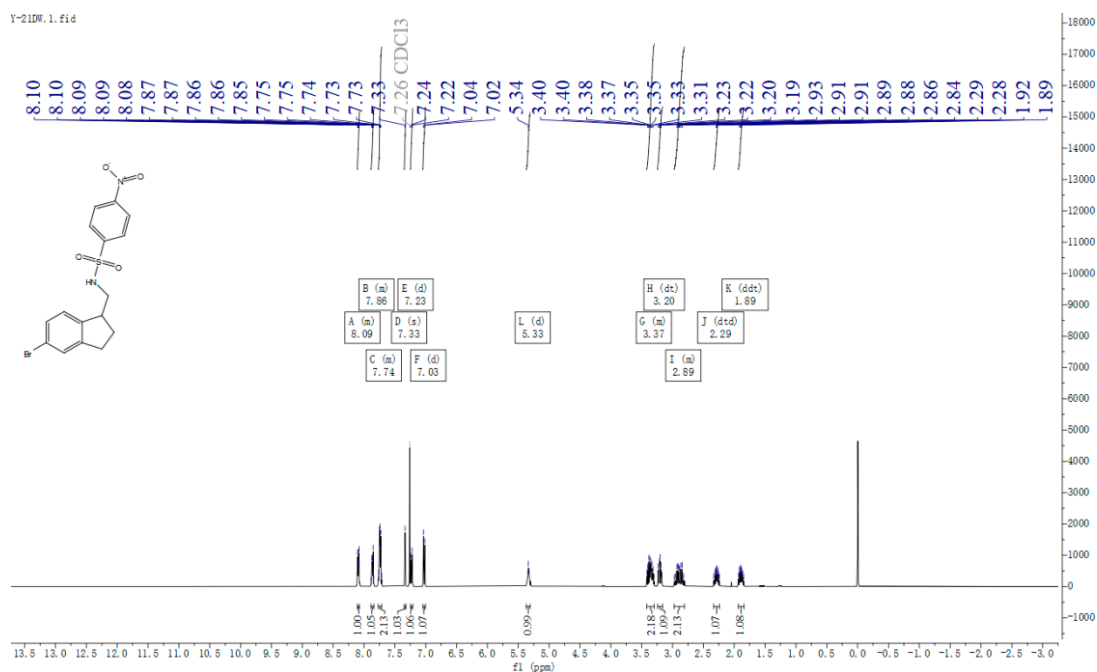




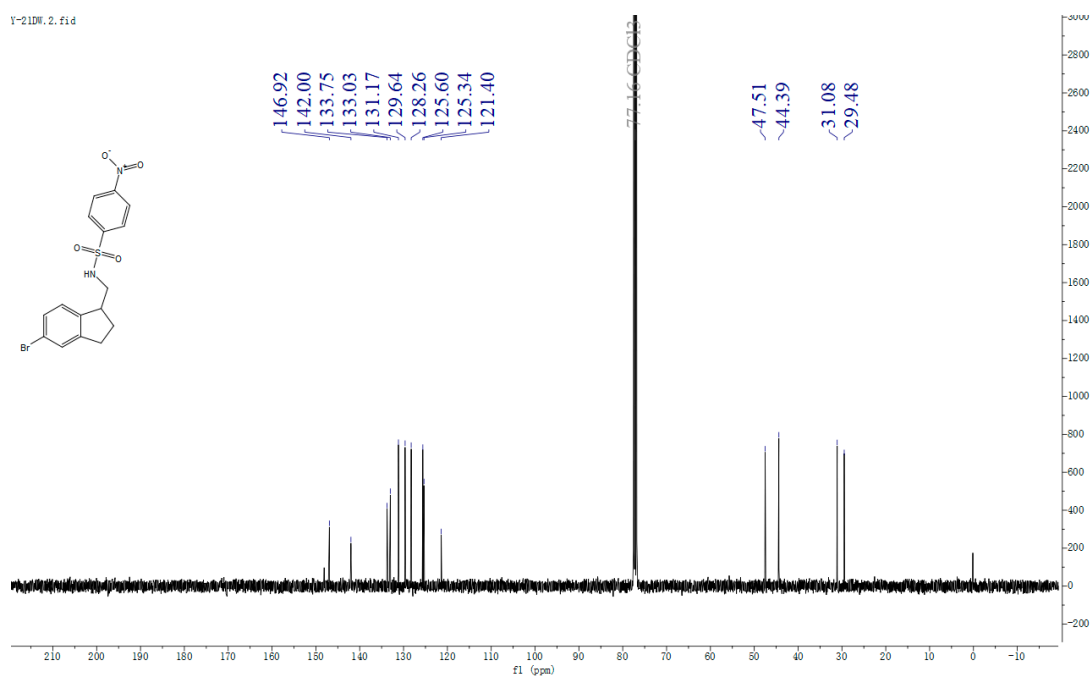
**Figure S7.** The <sup>1</sup>H spectrum (400MHz, CDCl<sub>3</sub>) of *rac-1q*.



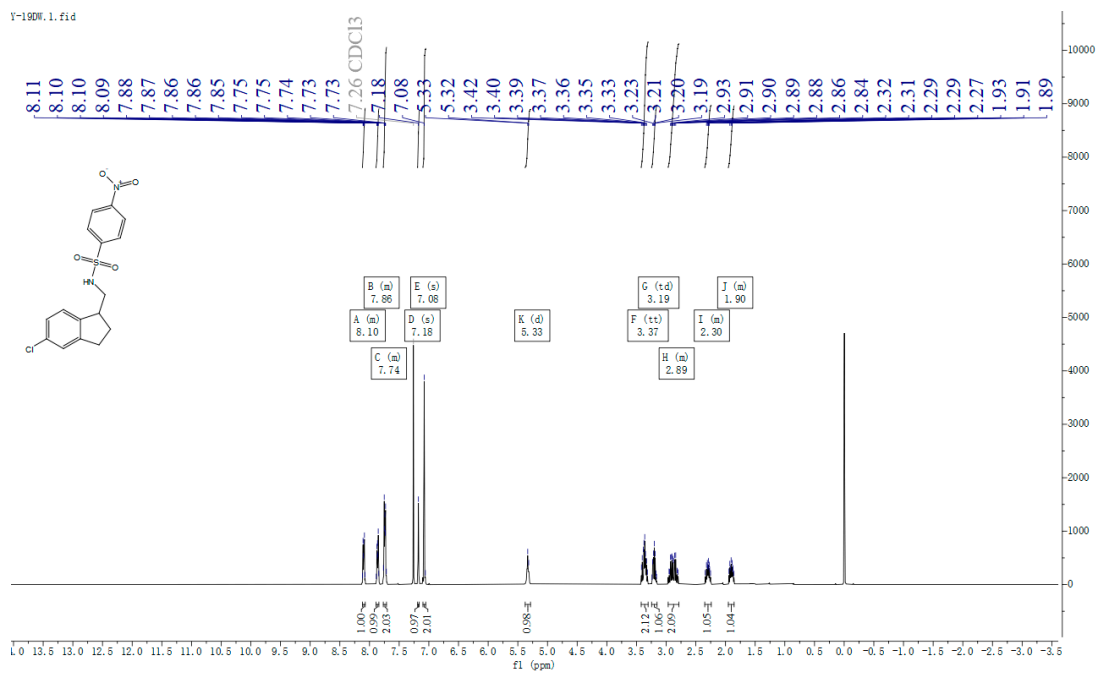
**Figure S8.** The <sup>13</sup>C spectrum (101MHz, CDCl<sub>3</sub>) of *rac-1q*.



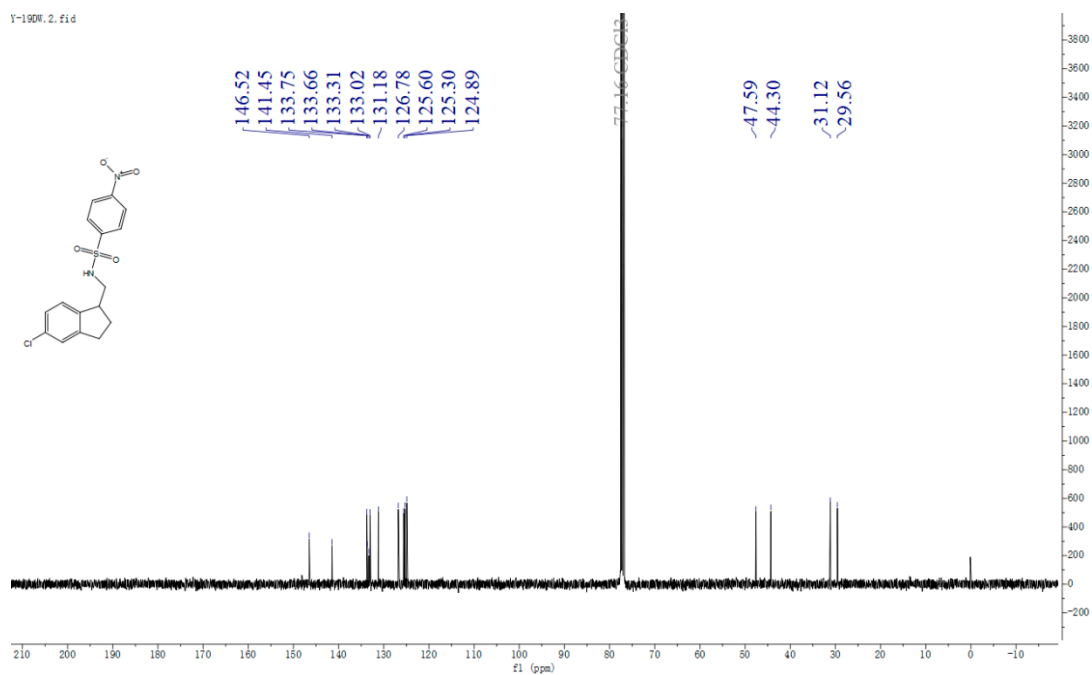
**Figure S9.** The <sup>1</sup>H spectrum (400MHz, CDCl<sub>3</sub>) of **rac-1r**.



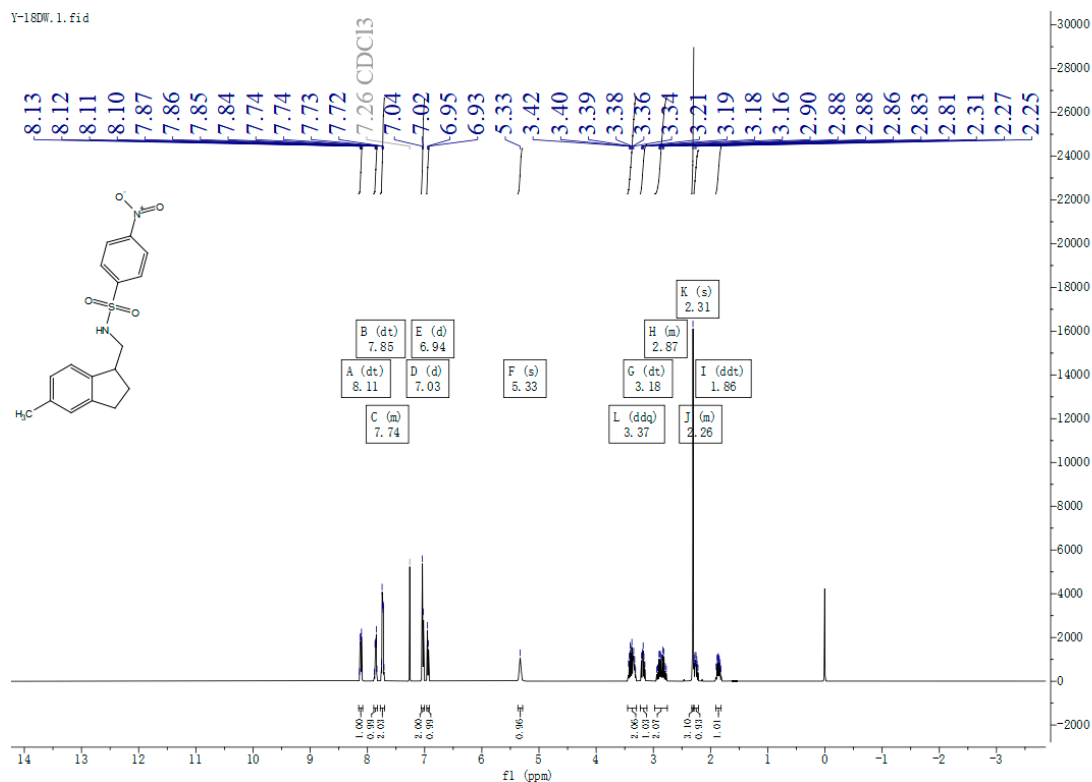
**Figure S10.** The <sup>13</sup>C spectrum (101MHz, CDCl<sub>3</sub>) of **rac-1r**.



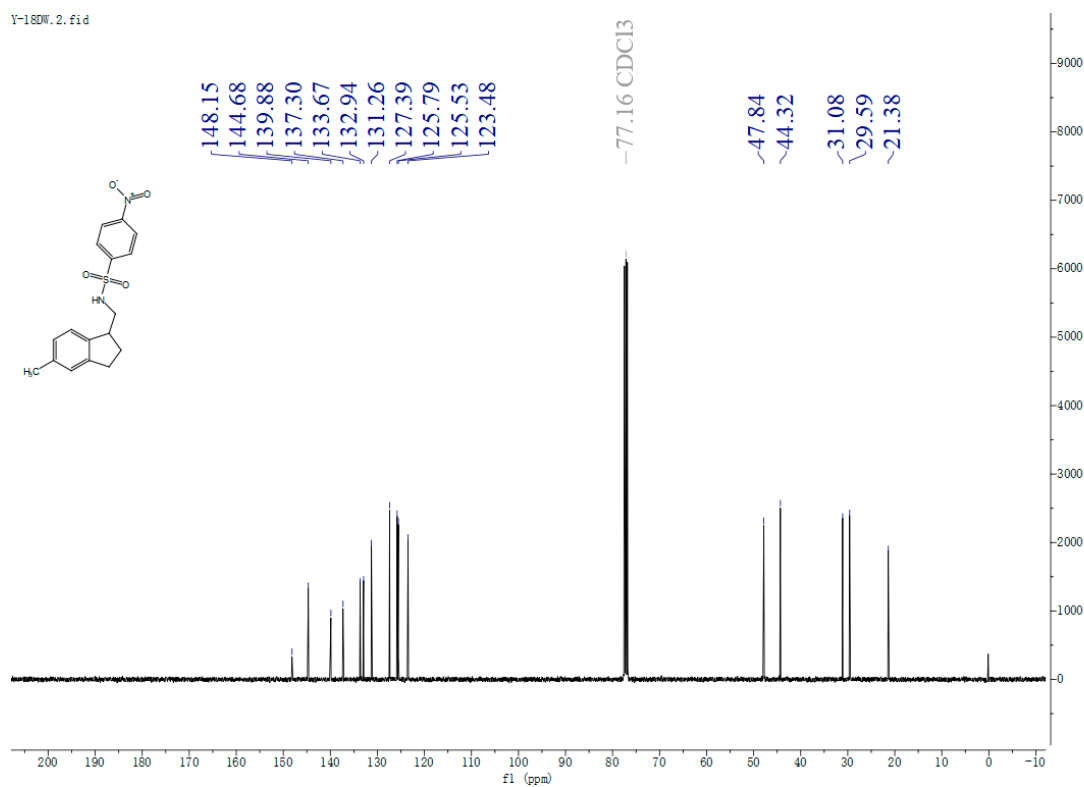
**Figure S11.** The  $^1\text{H}$  spectrum (400MHz,  $\text{CDCl}_3$ ) of **rac-1s**.



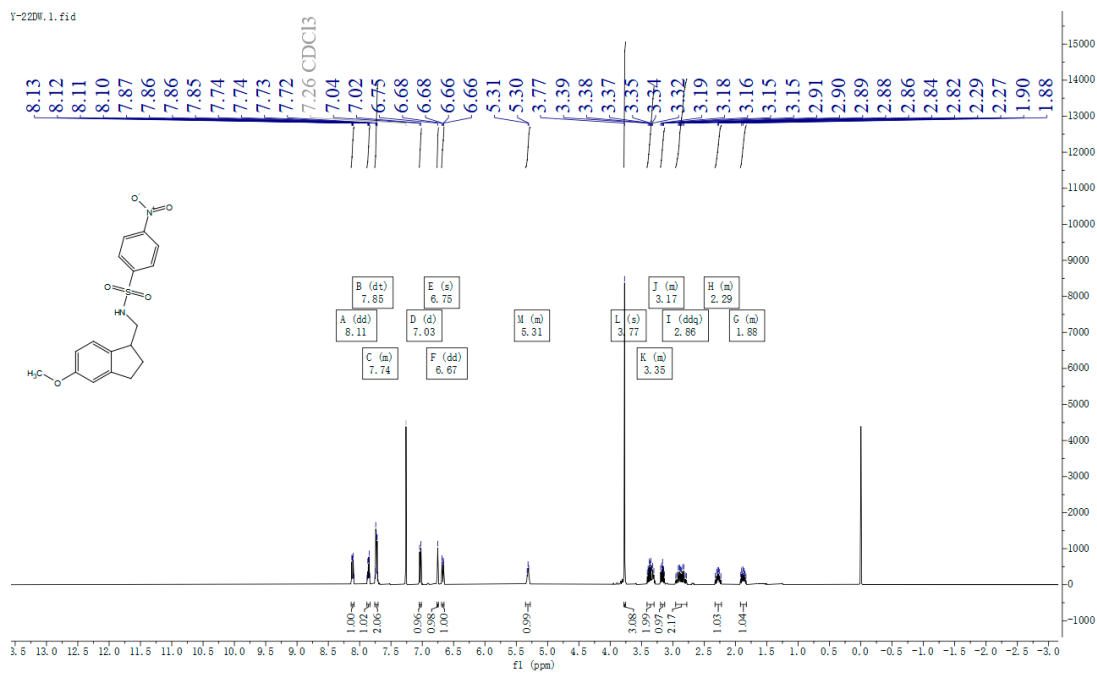
**Figure S12.** The  $^{13}\text{C}$  spectrum (101MHz,  $\text{CDCl}_3$ ) of **rac-1s**.



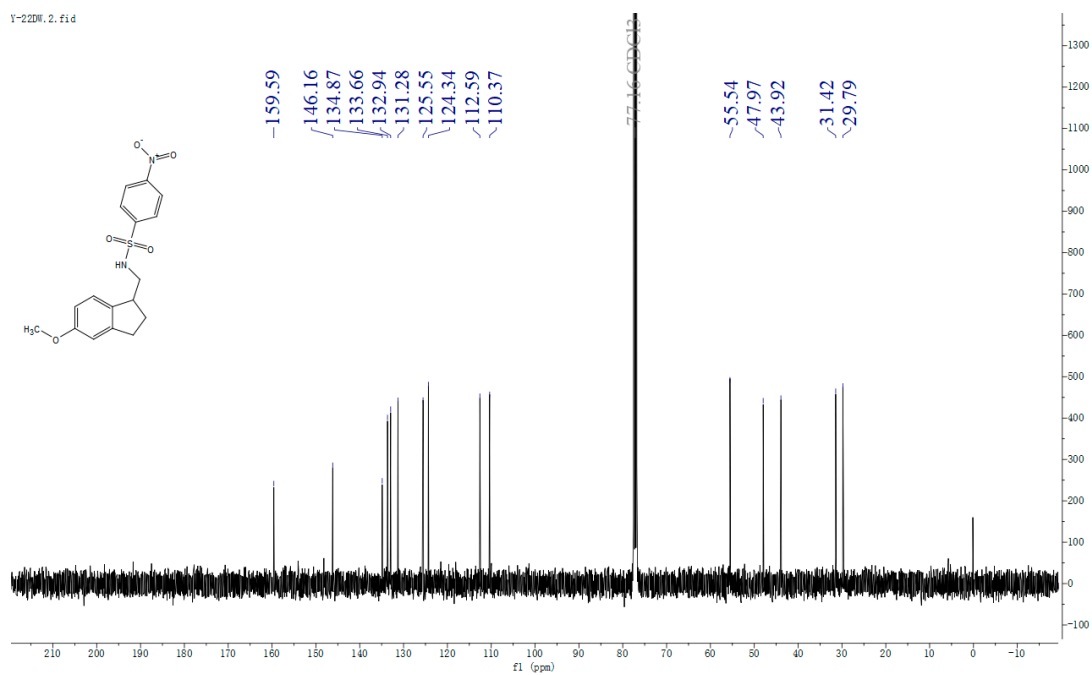
**Figure S13.** The <sup>1</sup>H spectrum (400MHz, CDCl<sub>3</sub>) of *rac-1t*.



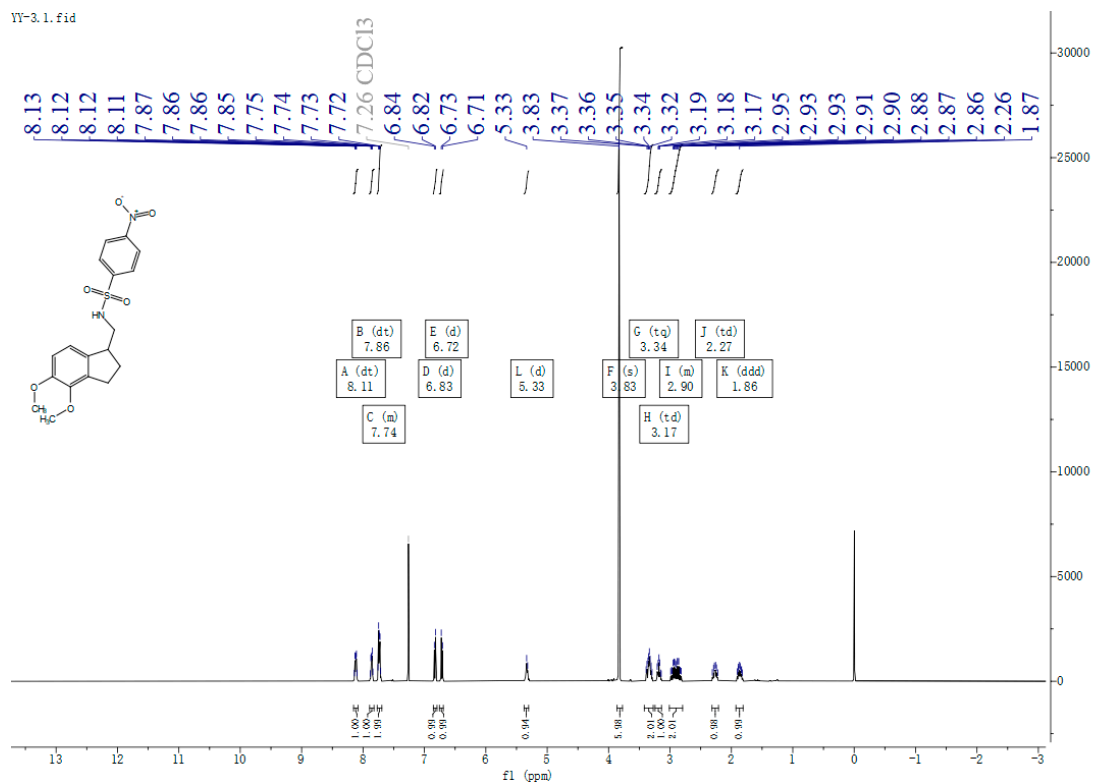
**Figure S14.** The <sup>13</sup>C spectrum (101MHz, CDCl<sub>3</sub>) of *rac-1t*.



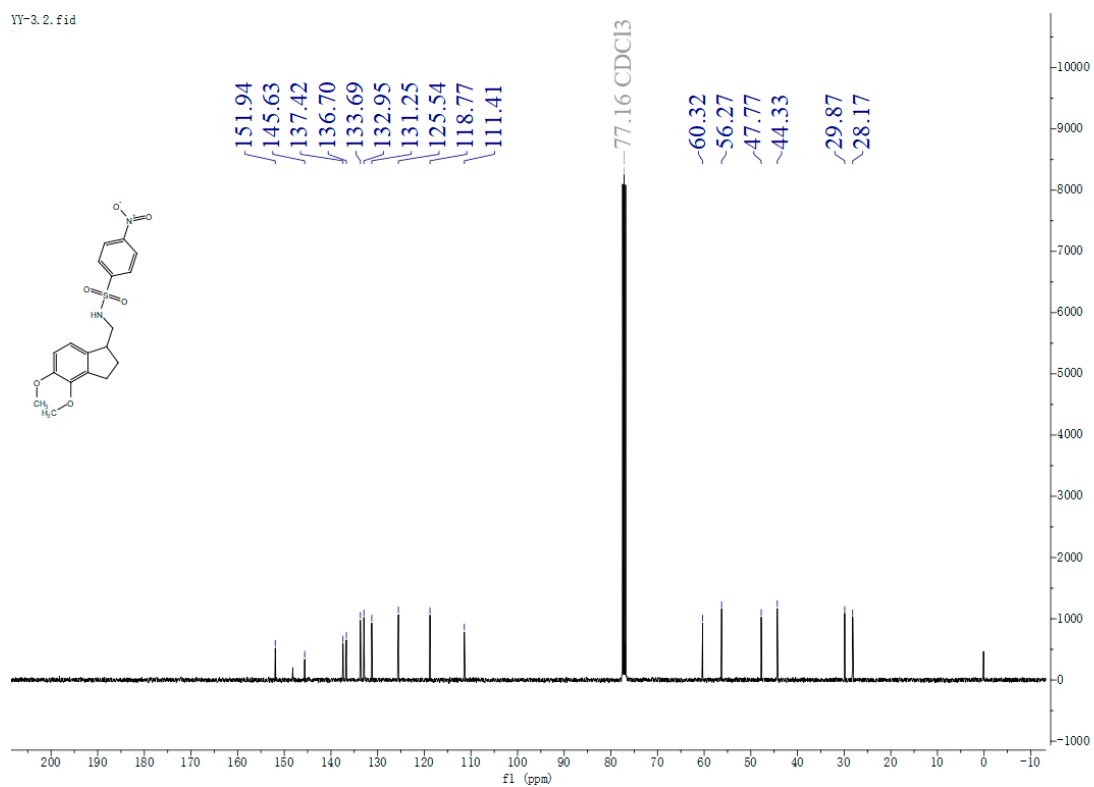
**Figure S15.** The <sup>1</sup>H spectrum (400MHz, CDCl<sub>3</sub>) of **rac-1u**.



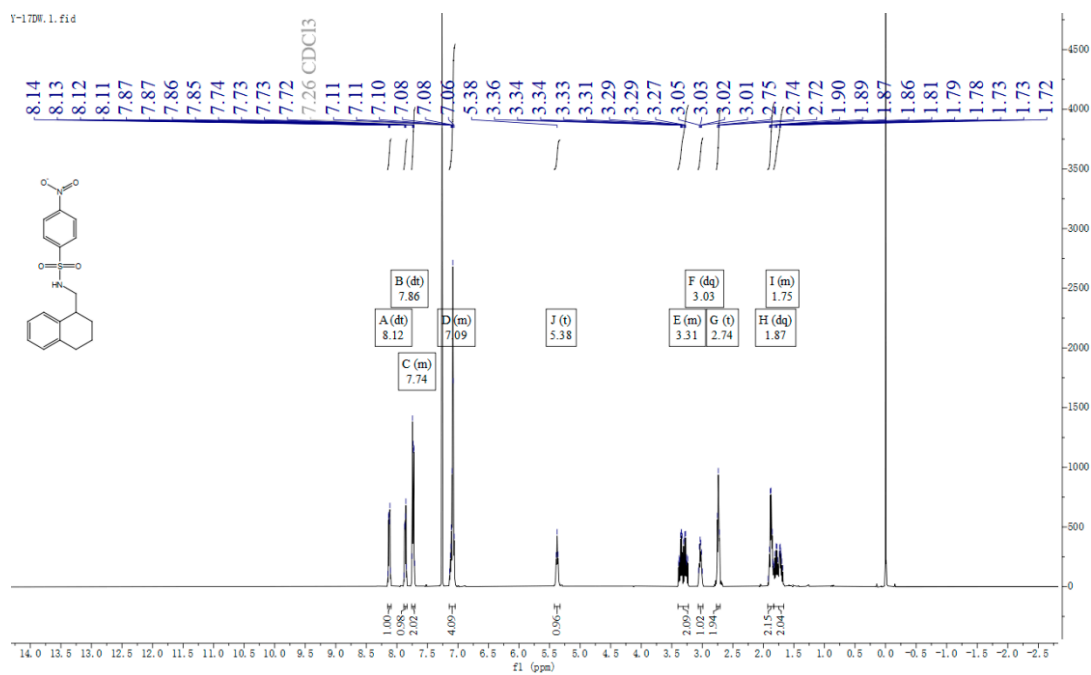
**Figure S16.** The <sup>13</sup>C spectrum (101MHz, CDCl<sub>3</sub>) of **rac-1u**.



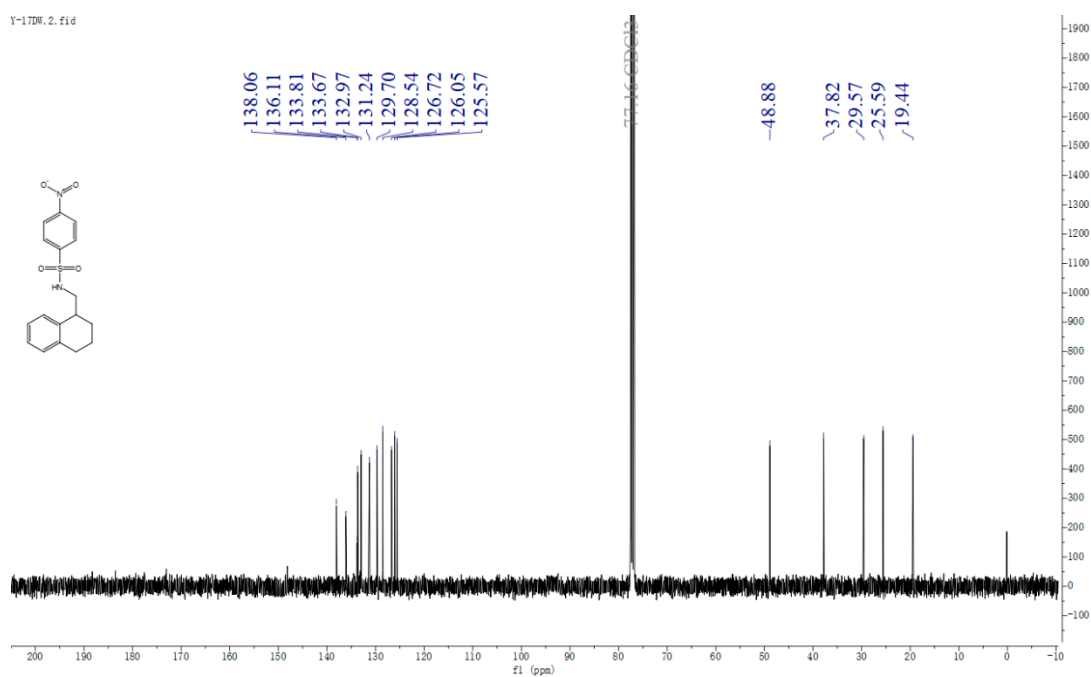
**Figure S17.** The <sup>1</sup>H spectrum (400MHz, CDCl<sub>3</sub>) of *rac-1v*.



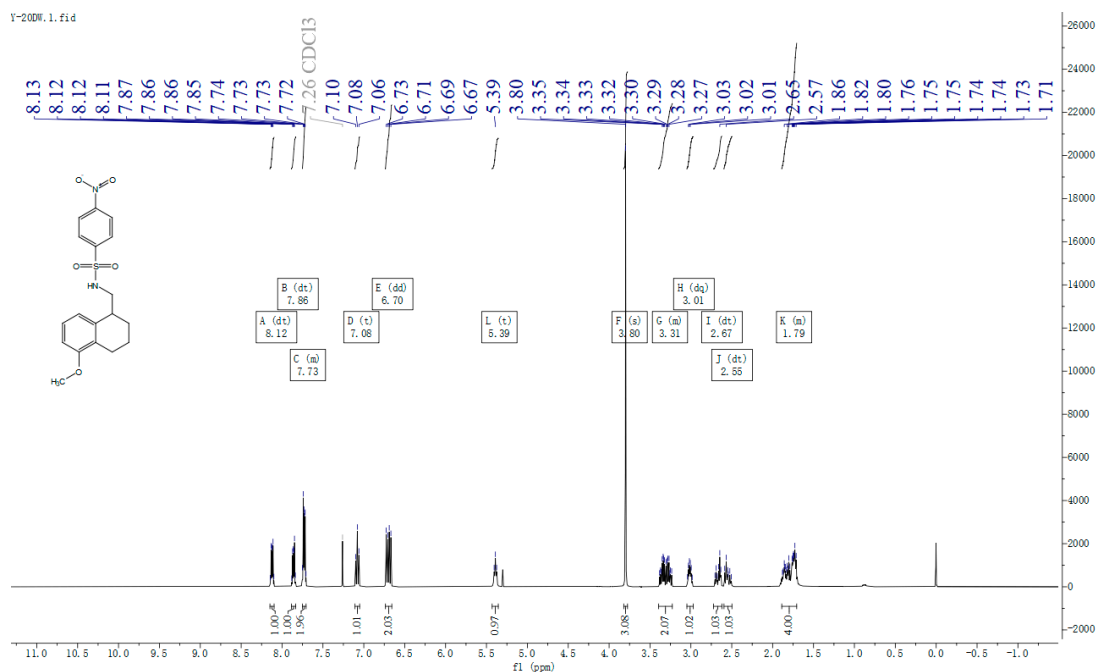
**Figure S18.** The <sup>13</sup>C spectrum (101MHz, CDCl<sub>3</sub>) of *rac-1v*.



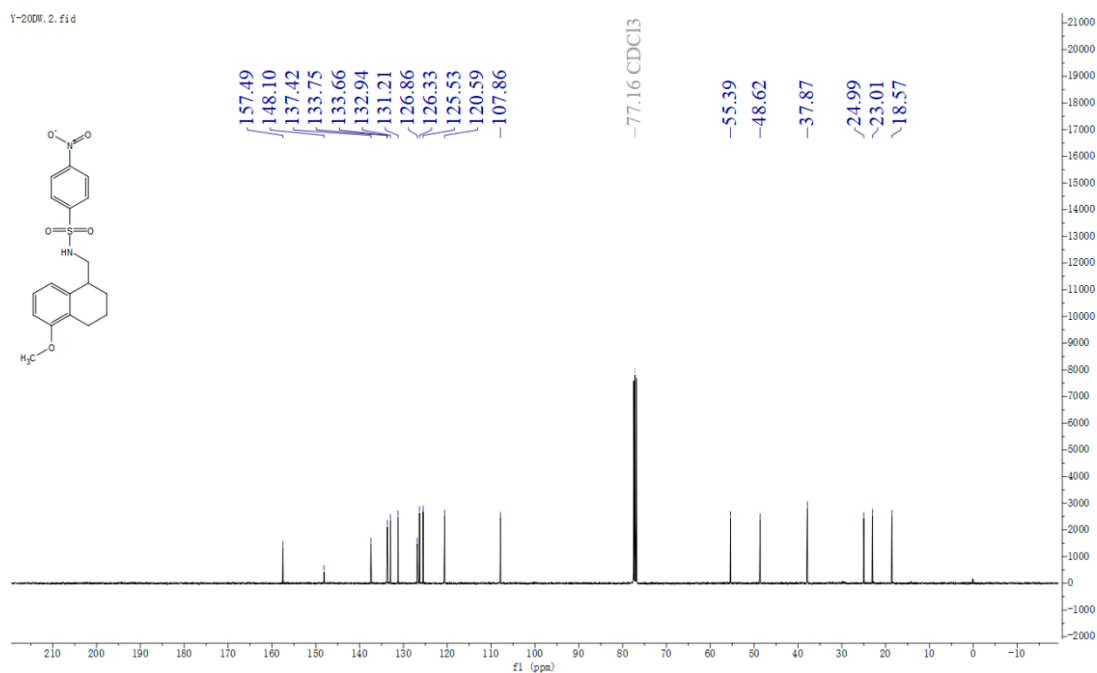
**Figure S19.** The <sup>1</sup>H spectrum (400MHz, CDCl<sub>3</sub>) of **rac-1w**.



**Figure S20.** The <sup>13</sup>C spectrum (101MHz, CDCl<sub>3</sub>) of **rac-1w**.



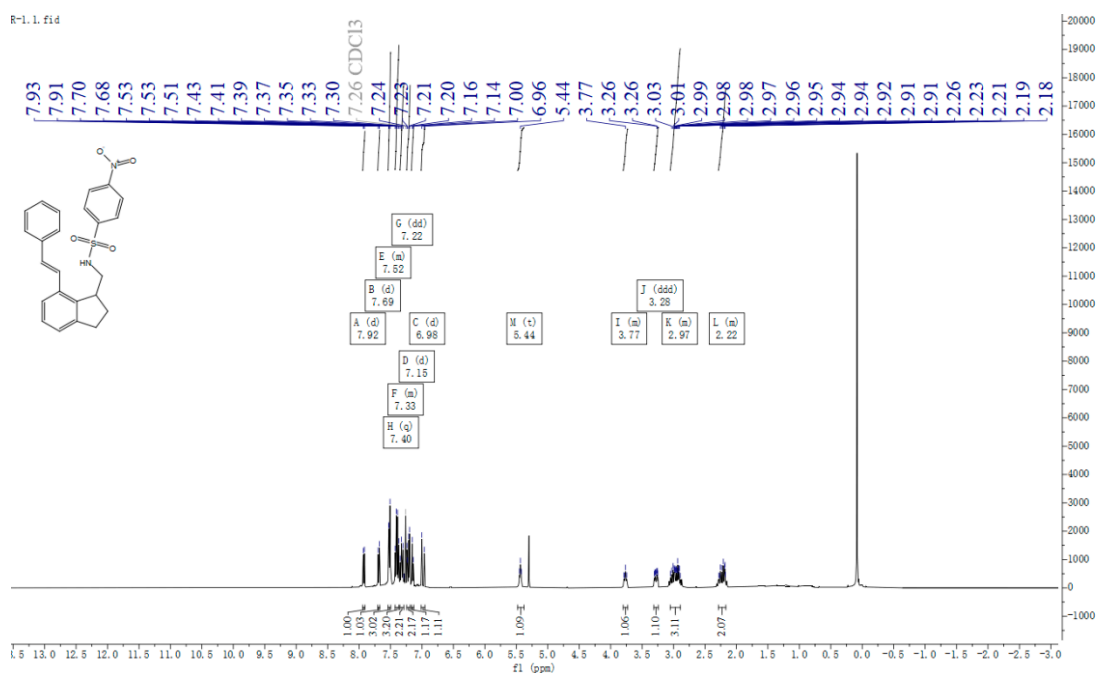
**Figure S21.** The <sup>1</sup>H spectrum (400MHz, CDCl<sub>3</sub>) of **rac-1x**.



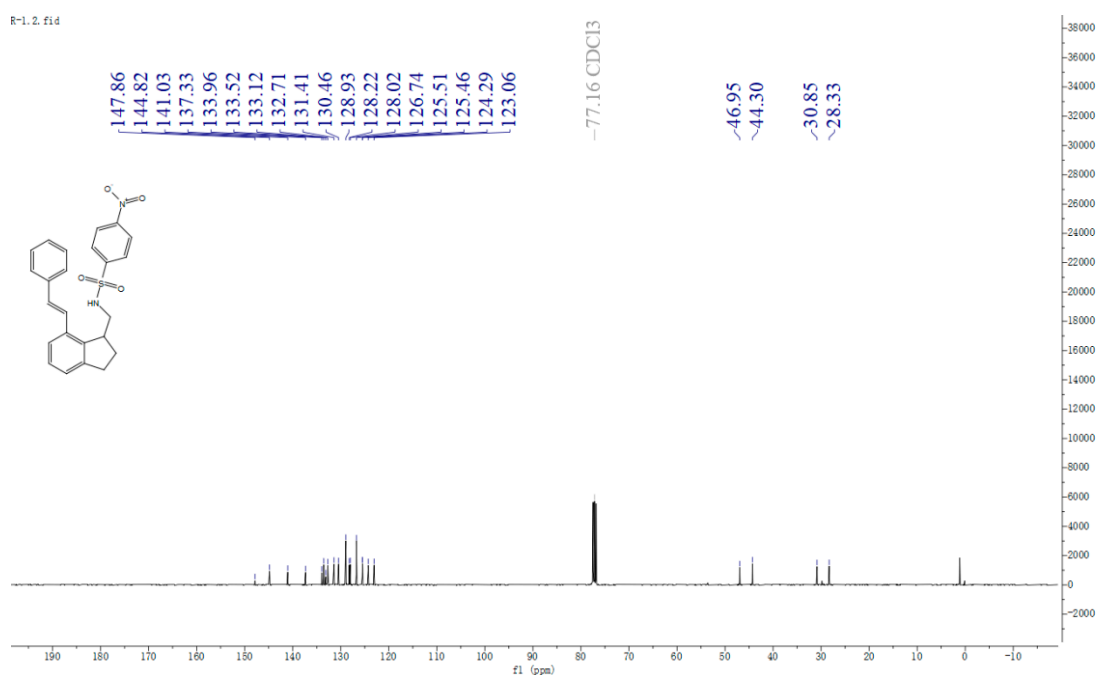
**Figure S22.** The <sup>13</sup>C spectrum (101MHz, CDCl<sub>3</sub>) of **rac-1x**.



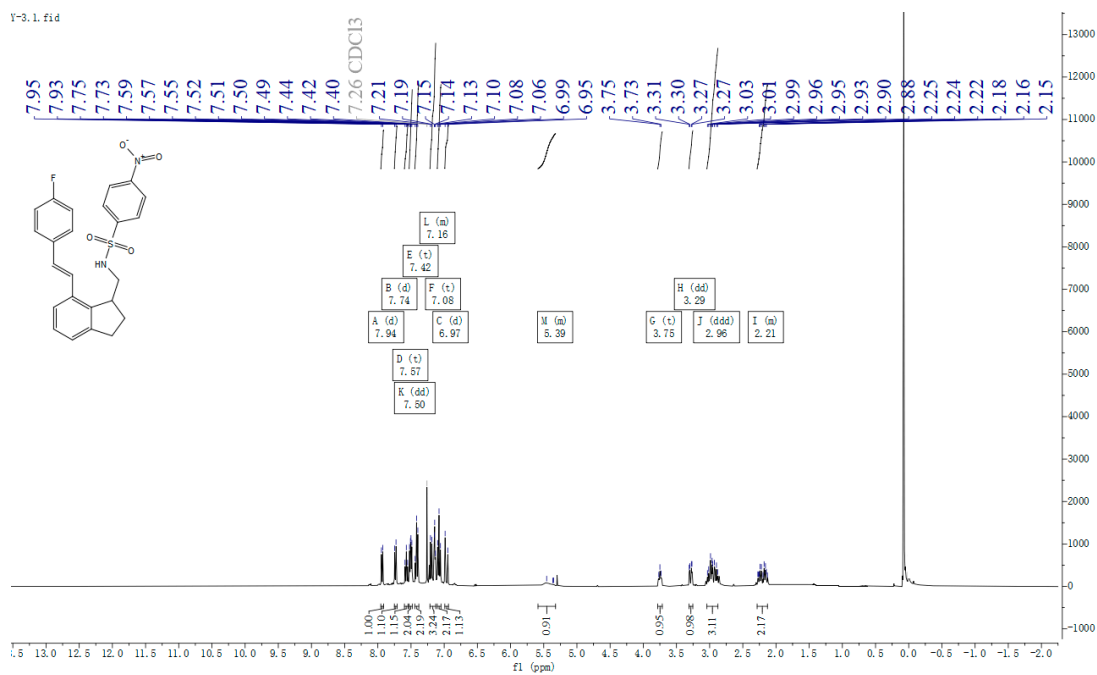
2 The  $^1\text{H}$  spectrum and  $^{13}\text{C}$  spectrum of **2a-x** and **3**.



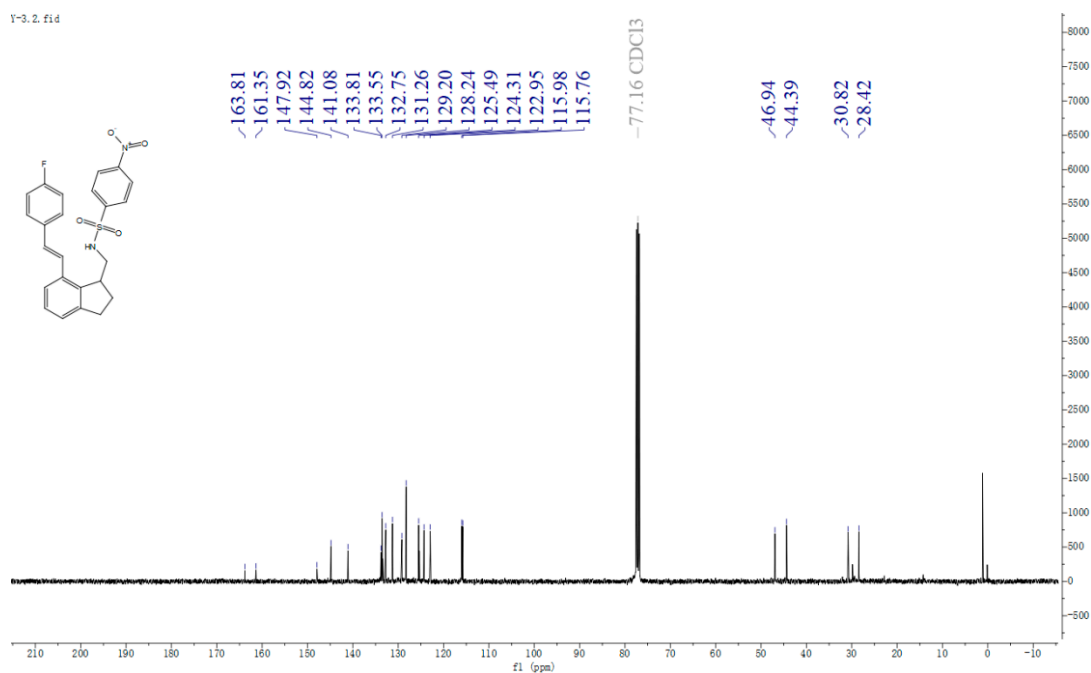
**Figure S23.** The  $^1\text{H}$  spectrum (400MHz,  $\text{CDCl}_3$ ) of **2a**.



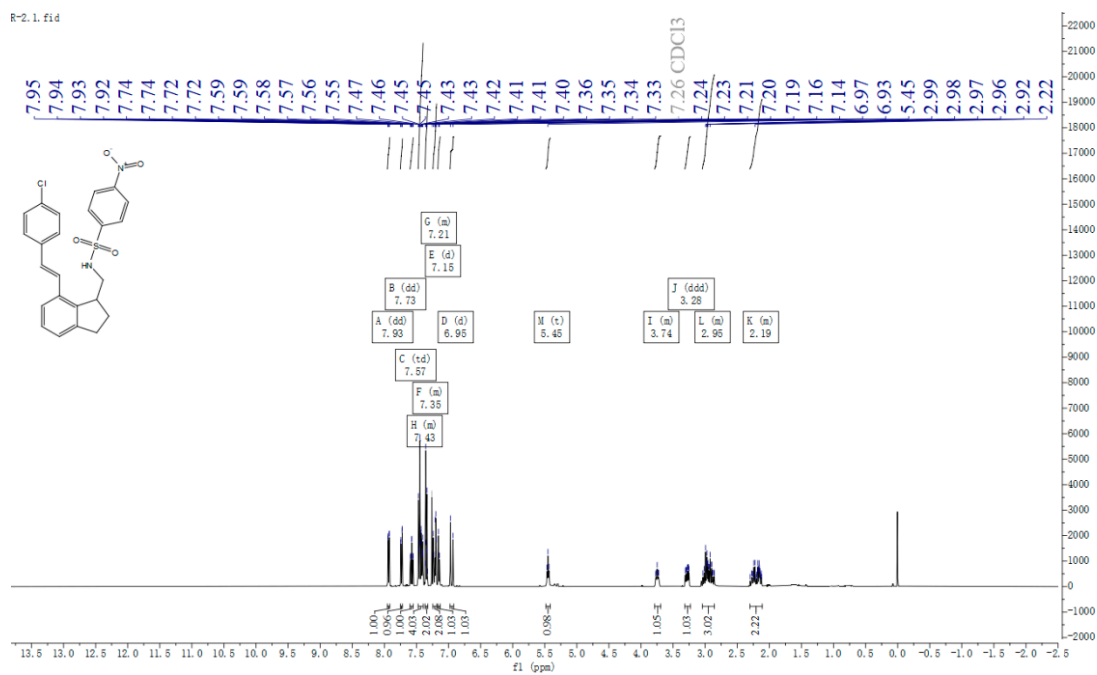
**Figure S24.** The  $^{13}\text{C}$  spectrum (101MHz,  $\text{CDCl}_3$ ) of **2a**.



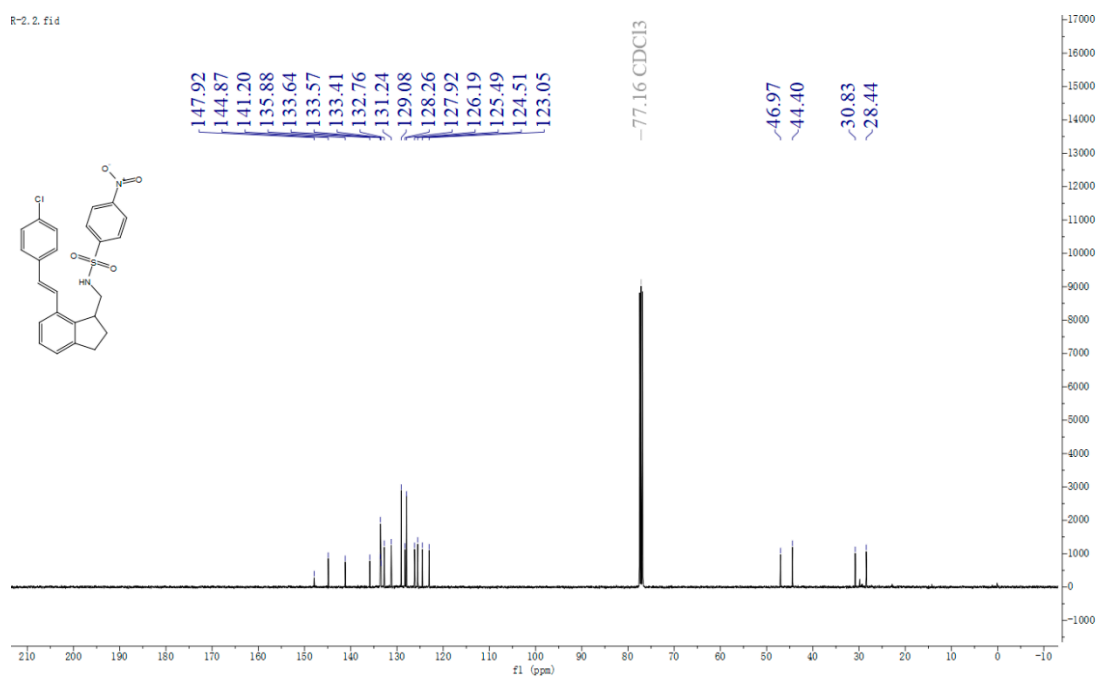
**Figure S25.** The <sup>1</sup>H spectrum (400MHz, CDCl<sub>3</sub>) of **2b**.



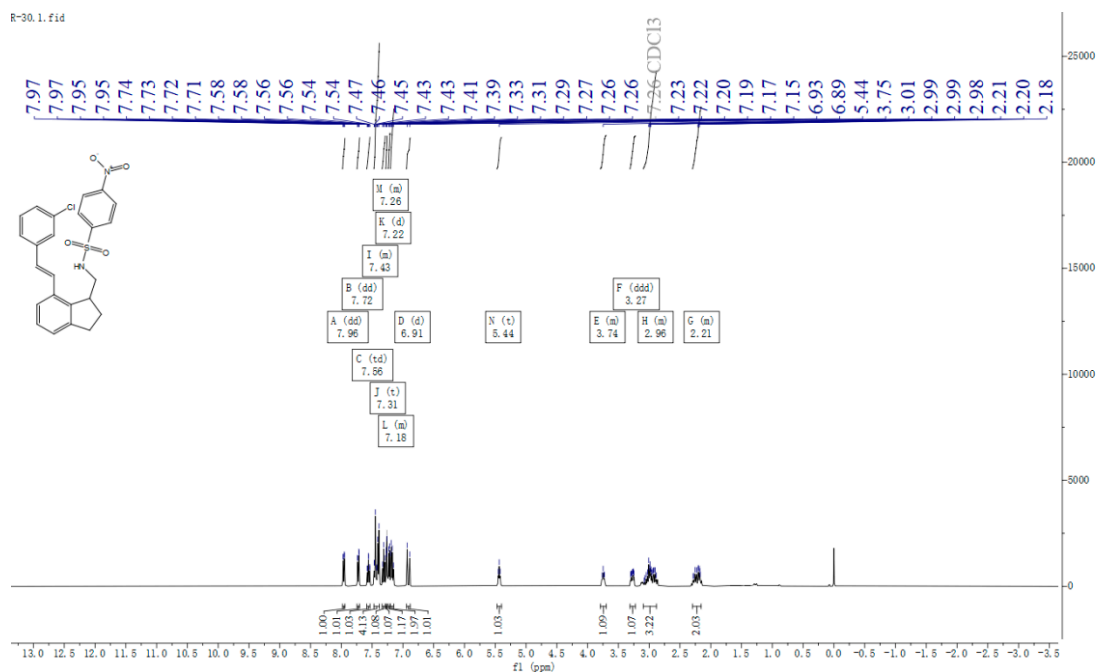
**Figure S26.** The <sup>13</sup>C spectrum (101MHz, CDCl<sub>3</sub>) of **2b**.



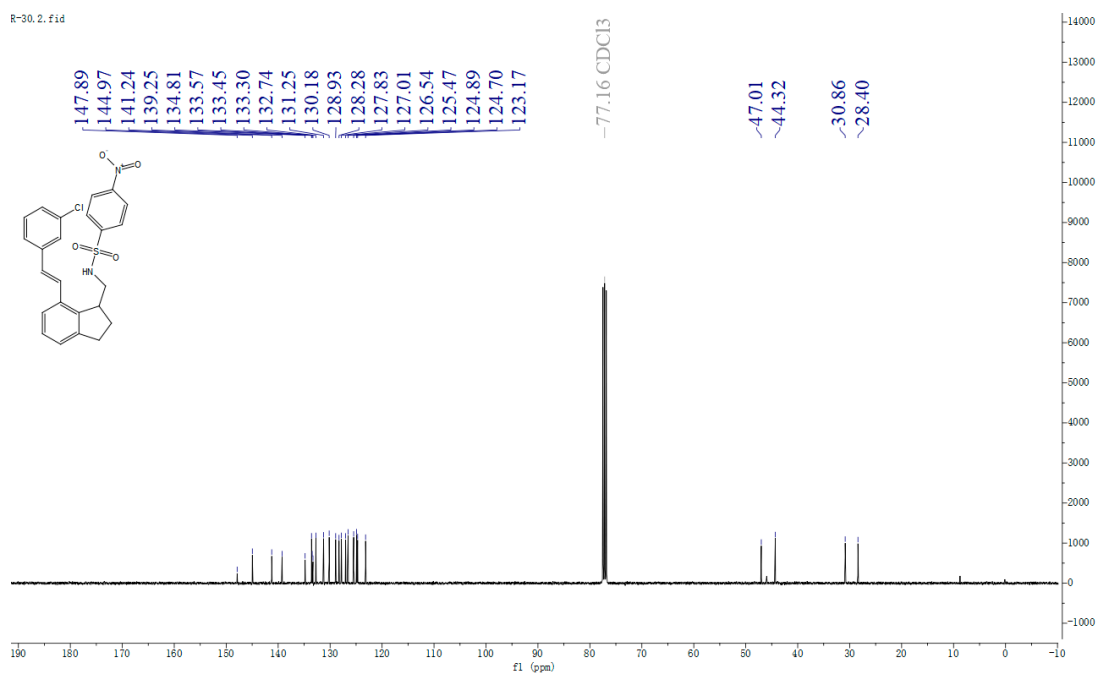
**Figure S27.** The  $^1\text{H}$  spectrum (400MHz,  $\text{CDCl}_3$ ) of **2c**.



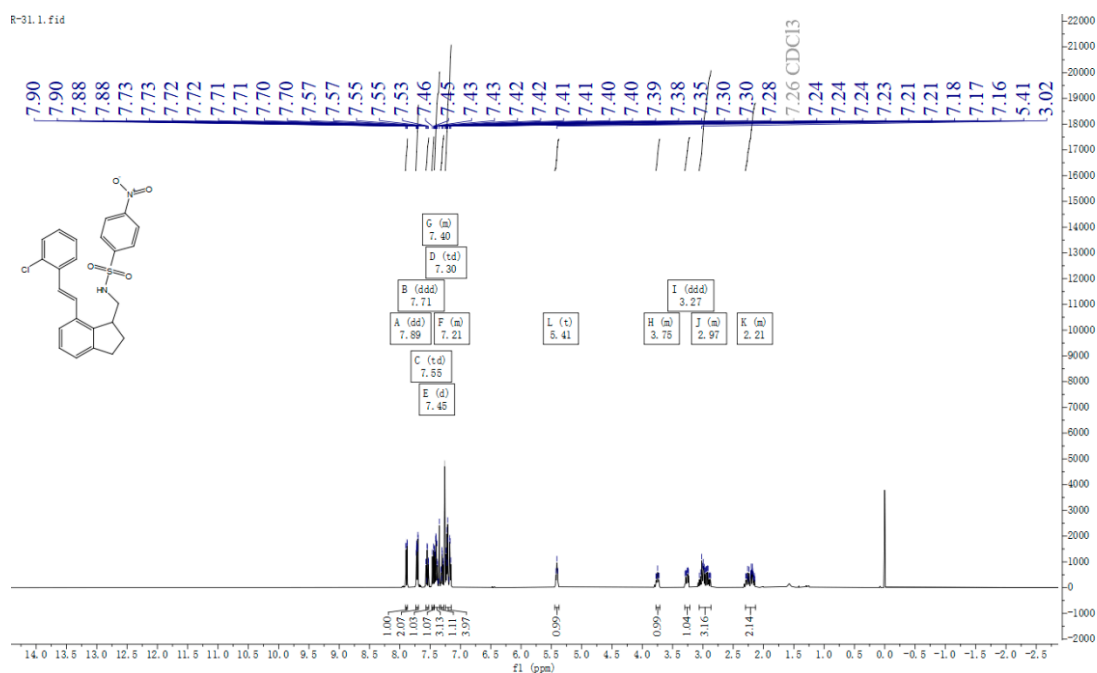
**Figure S28.** The  $^{13}\text{C}$  spectrum (101MHz,  $\text{CDCl}_3$ ) of **2c**.



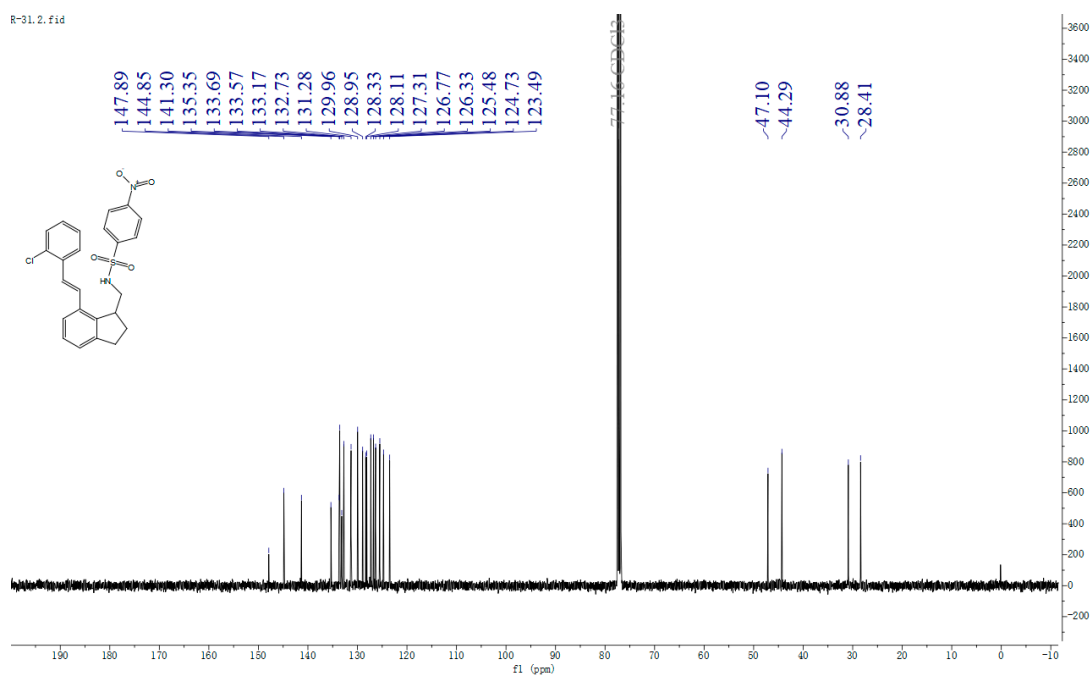
**Figure S29.** The  $^1\text{H}$  spectrum (400MHz,  $\text{CDCl}_3$ ) of **2d**.



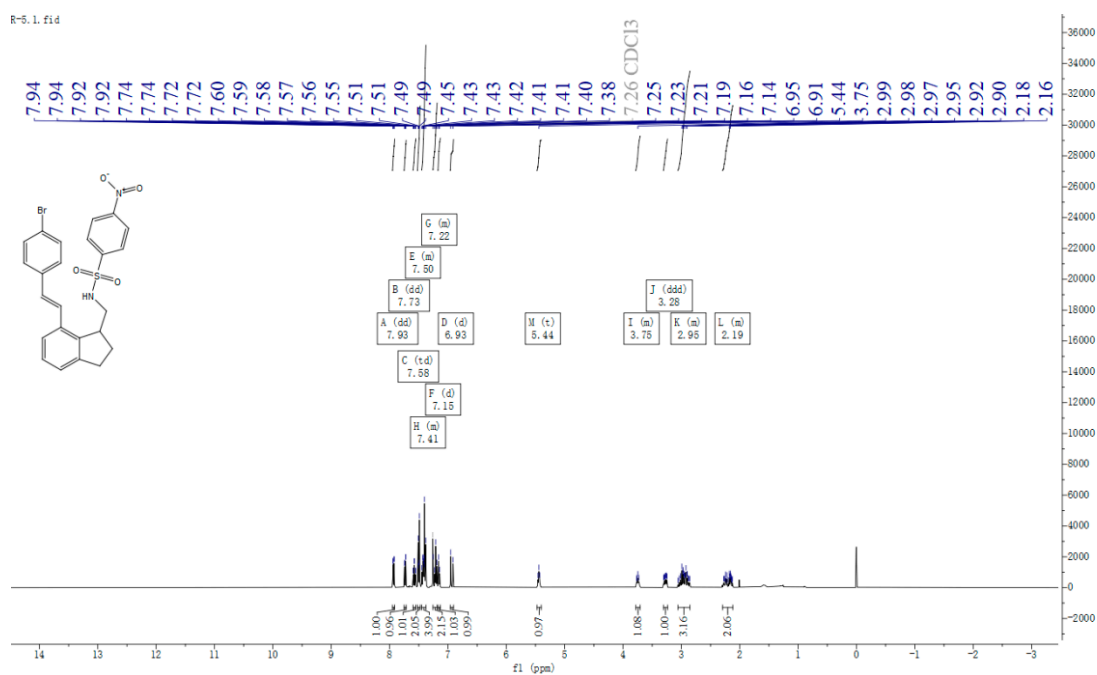
**Figure S30.** The  $^{13}\text{C}$  spectrum (101MHz,  $\text{CDCl}_3$ ) of **2d**.



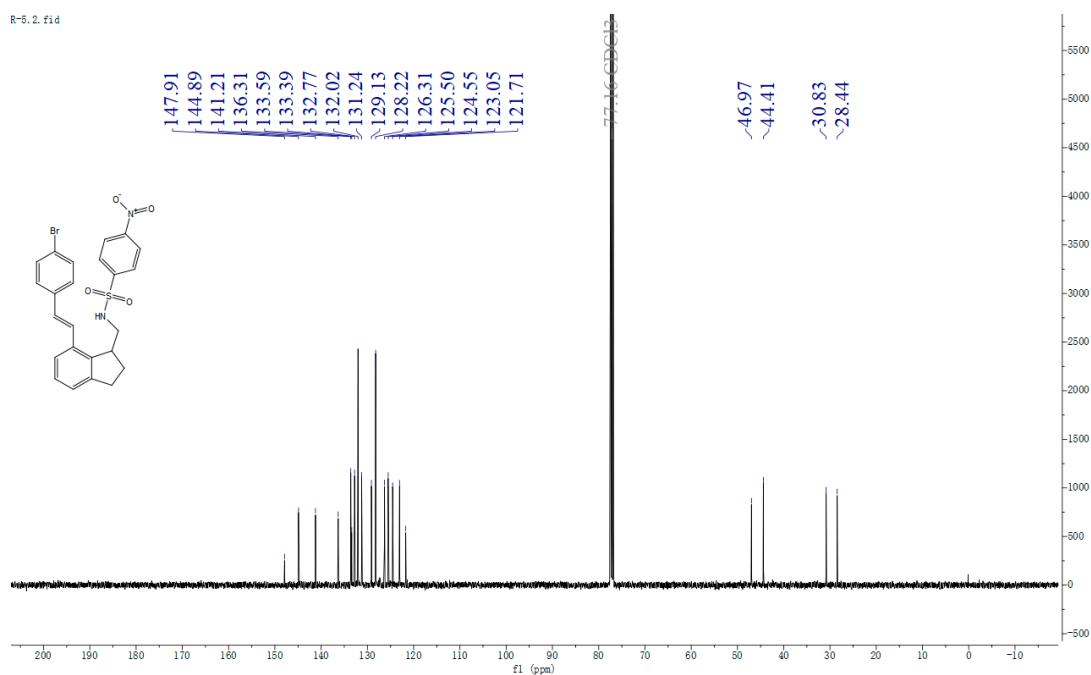
**Figure S31.** The <sup>1</sup>H spectrum (400MHz, CDCl<sub>3</sub>) of **2e**.



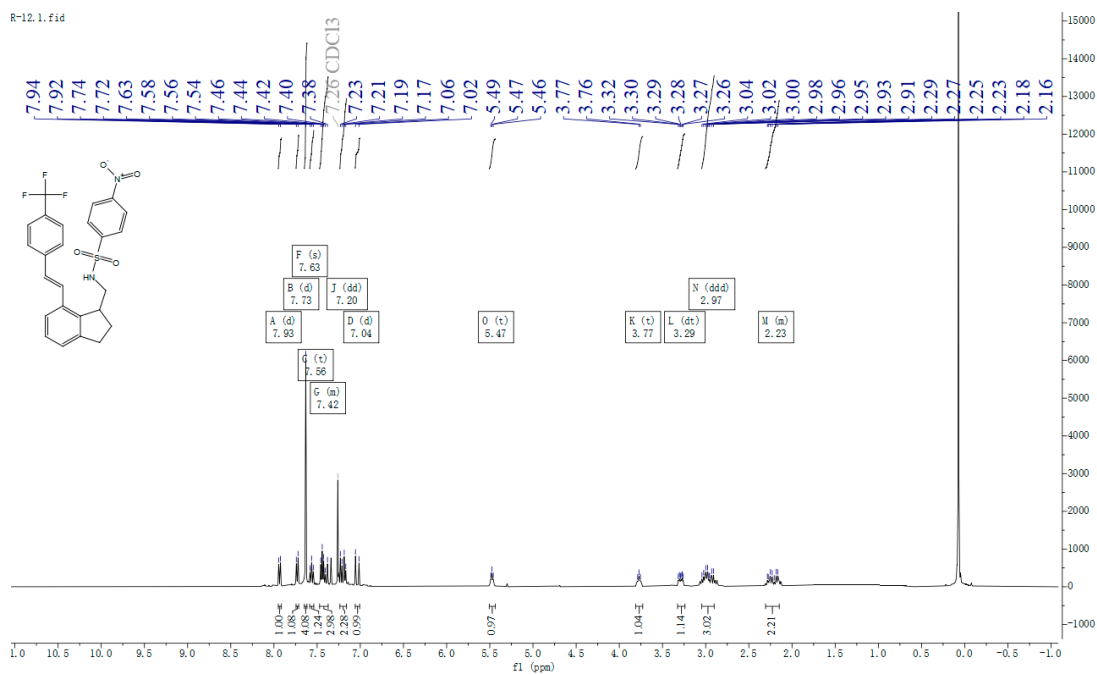
**Figure S32.** The <sup>13</sup>C spectrum (101MHz, CDCl<sub>3</sub>) of **2e**.



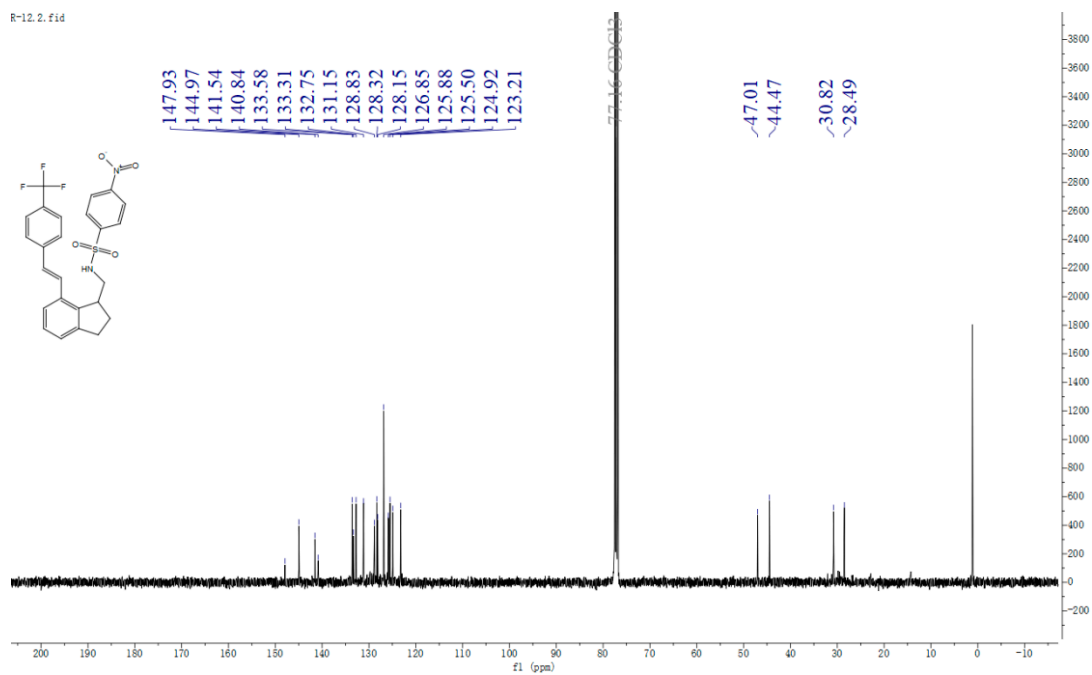
**Figure S33.** The <sup>1</sup>H spectrum (400MHz, CDCl<sub>3</sub>) of **2f**.



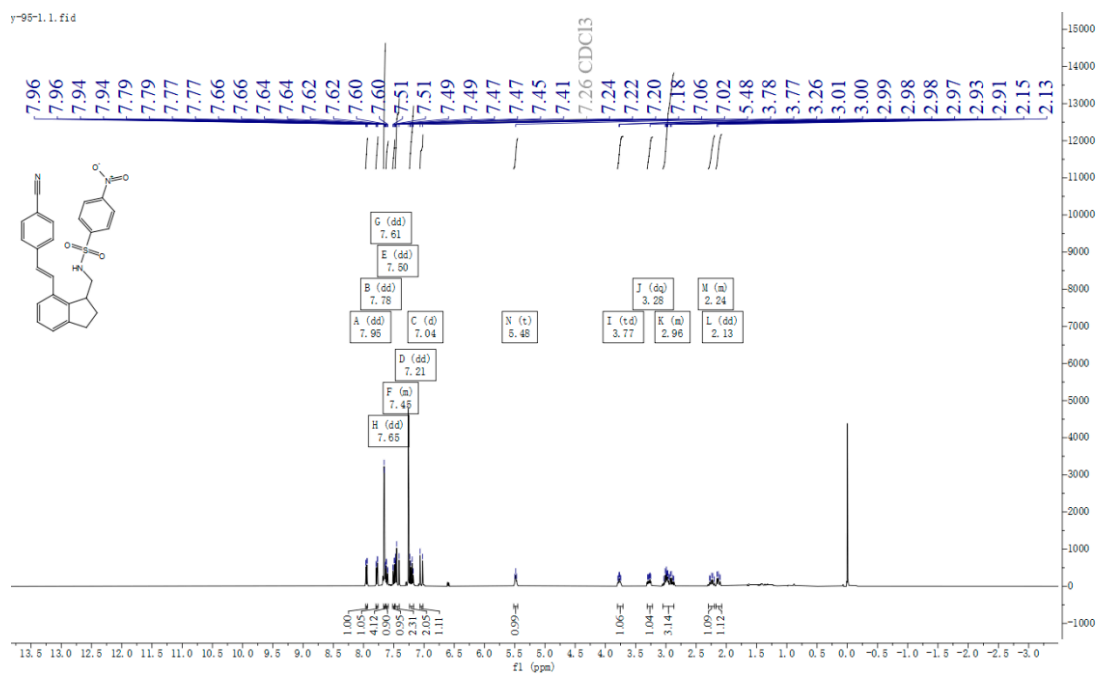
**Figure S34.** The <sup>13</sup>C spectrum (101MHz, CDCl<sub>3</sub>) of **2f**.



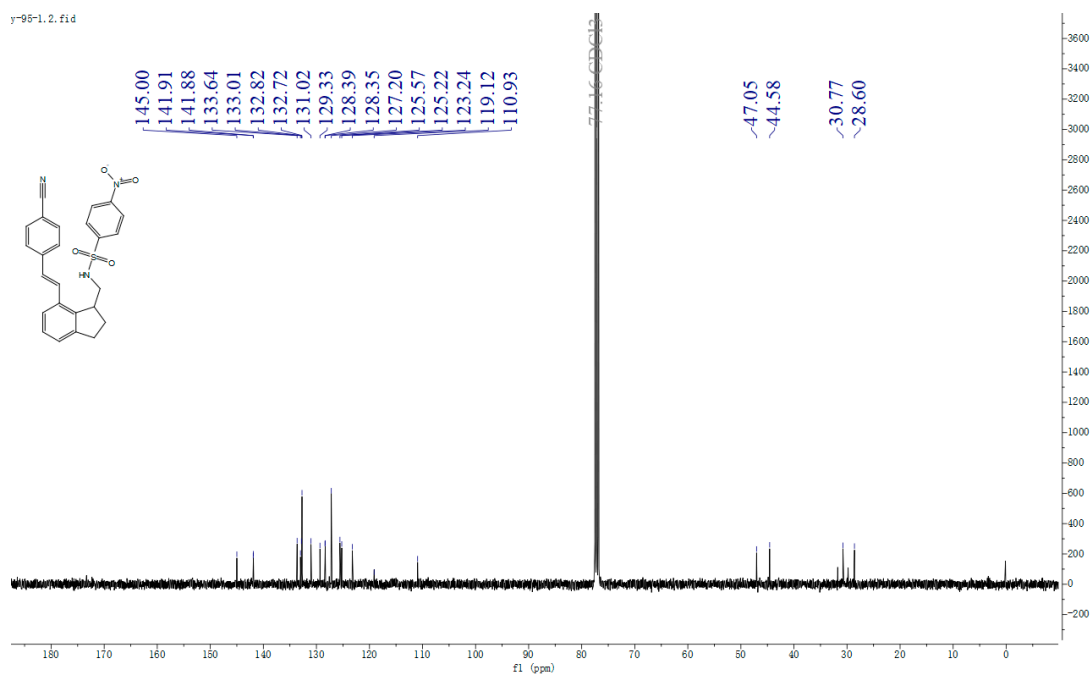
**Figure S35.** The <sup>1</sup>H spectrum (400MHz, CDCl<sub>3</sub>) of **2g**.



**Figure S36.** The <sup>13</sup>C spectrum (101MHz, CDCl<sub>3</sub>) of **2g**.

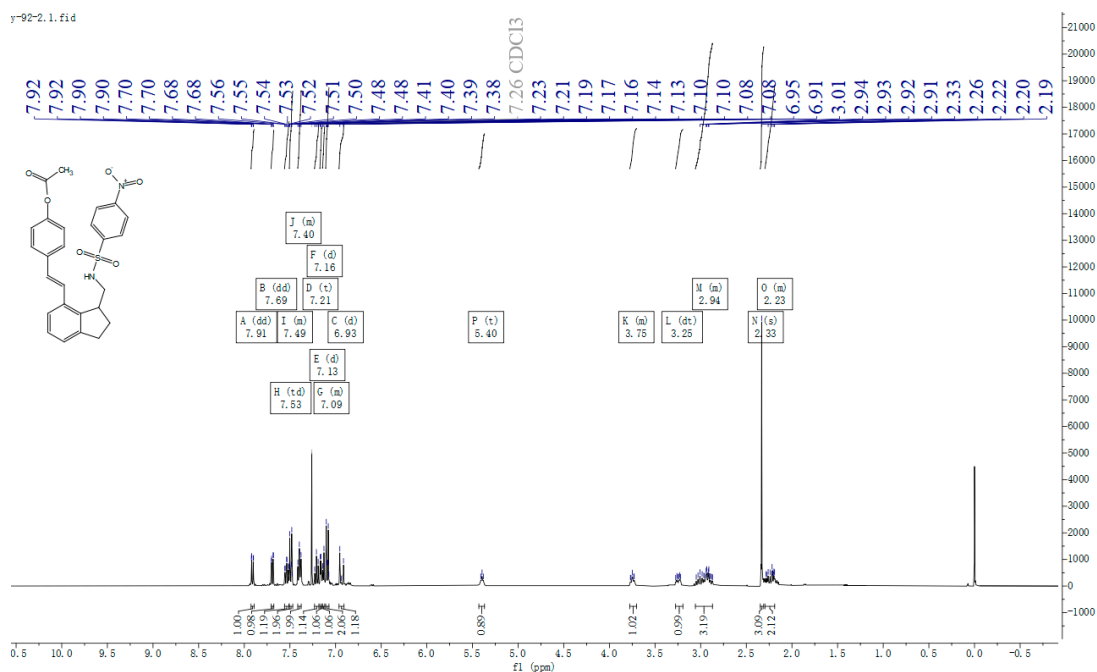


**Figure S37.** The <sup>1</sup>H spectrum (400MHz, CDCl<sub>3</sub>) of 2h.

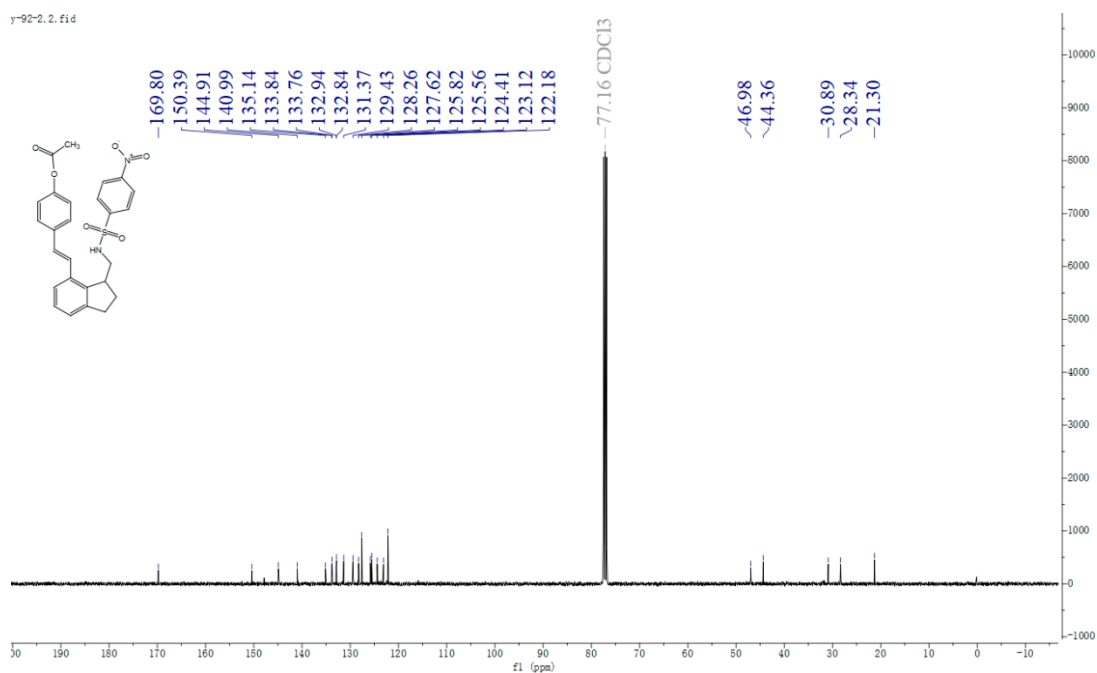


**Figure S38.** The <sup>13</sup>C spectrum (101MHz, CDCl<sub>3</sub>) of 2h.



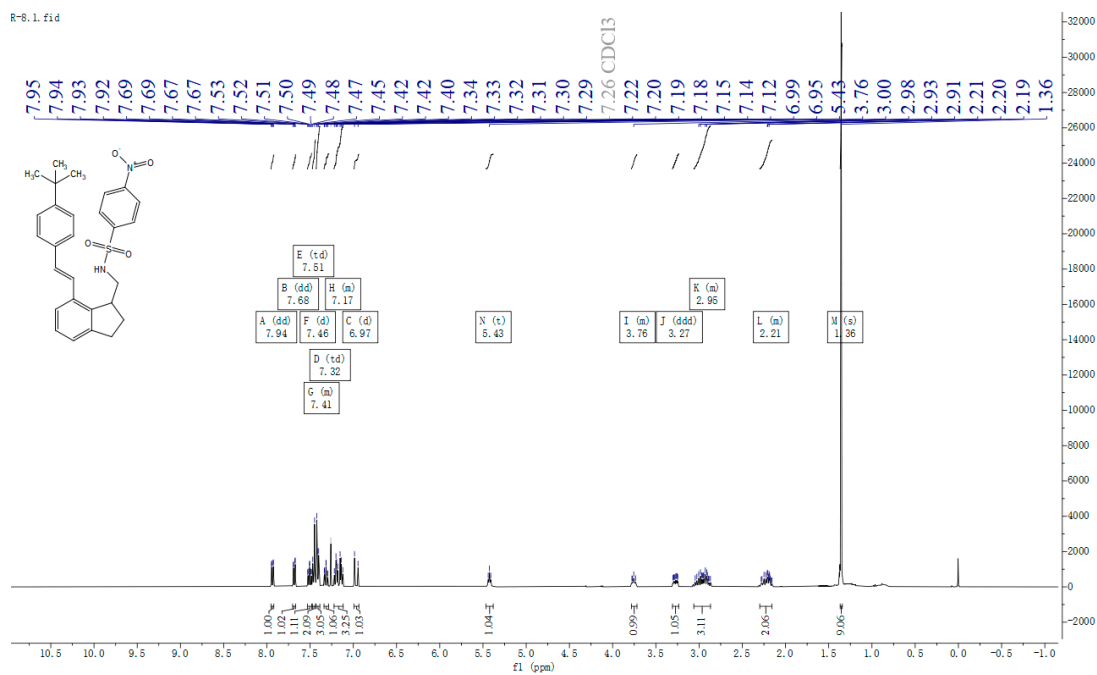


**Figure S39.** The <sup>1</sup>H spectrum (400MHz, CDCl<sub>3</sub>) of **2i**.

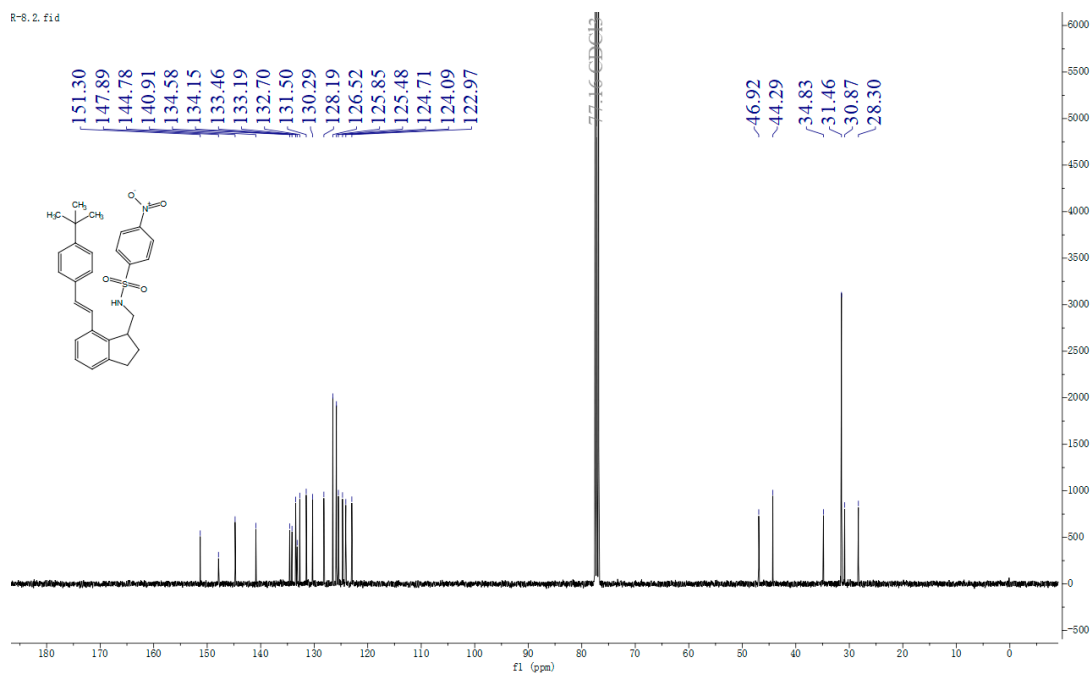


**Figure S40.** The <sup>13</sup>C spectrum (101MHz, CDCl<sub>3</sub>) of **2i**.

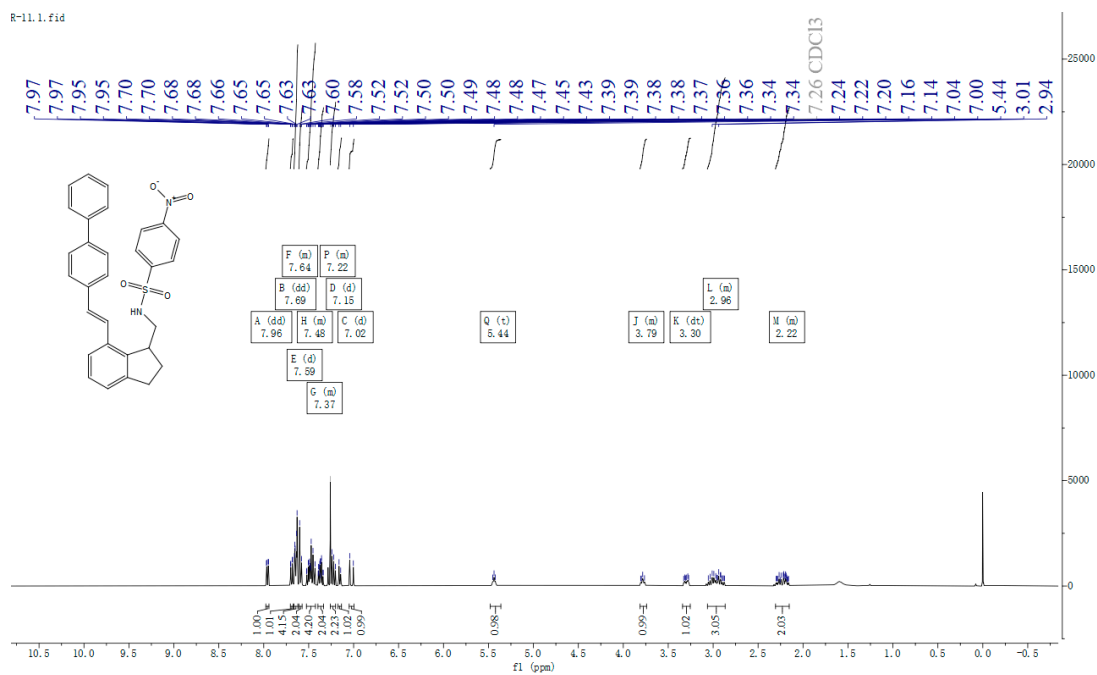




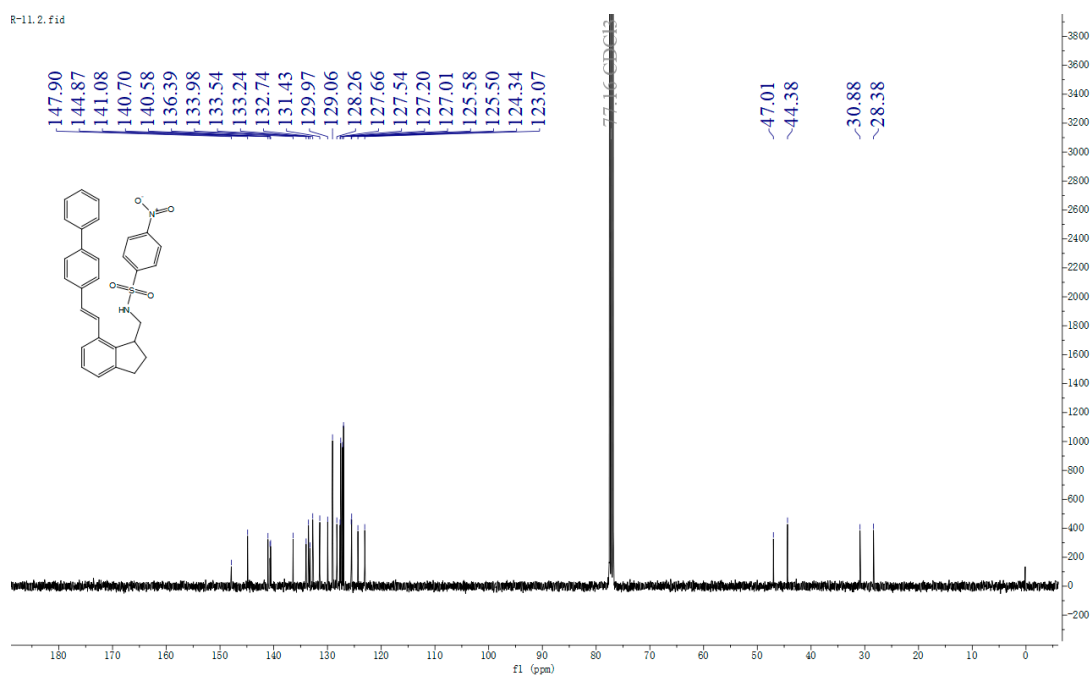
**Figure S43.** The  $^1\text{H}$  spectrum (400MHz,  $\text{CDCl}_3$ ) of **2k**.



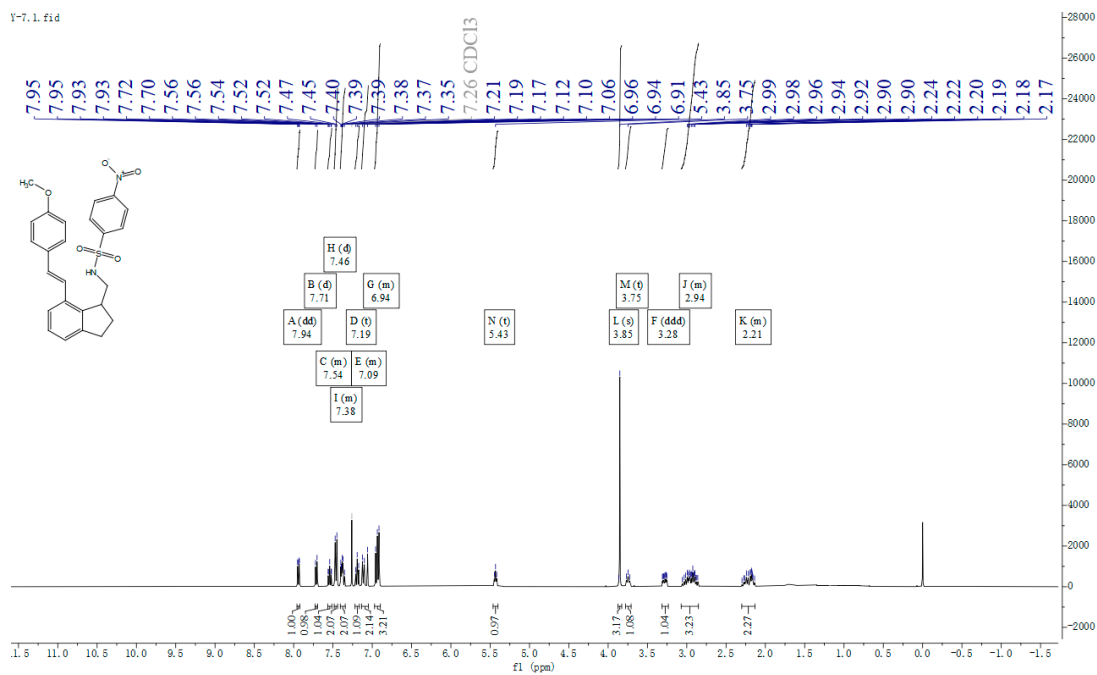
**Figure S44.** The  $^{13}\text{C}$  spectrum (101MHz,  $\text{CDCl}_3$ ) of **2k**.



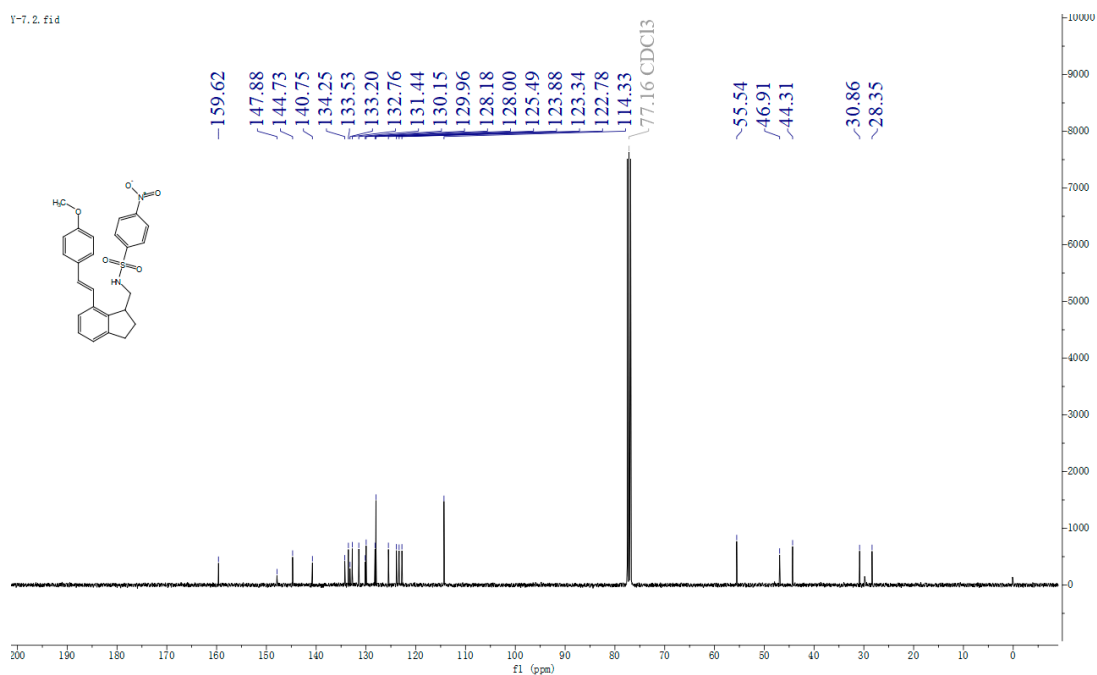
**Figure S45.** The <sup>1</sup>H spectrum (400MHz, CDCl<sub>3</sub>) of 21.



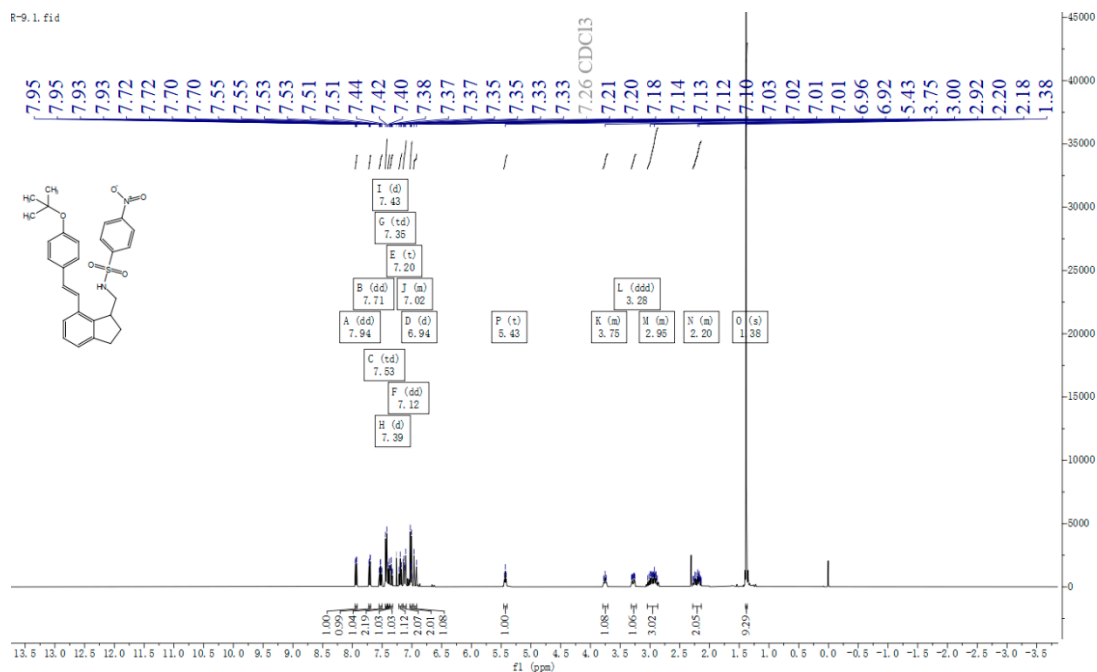
**Figure S46.** The <sup>13</sup>C spectrum (101MHz, CDCl<sub>3</sub>) of 21.



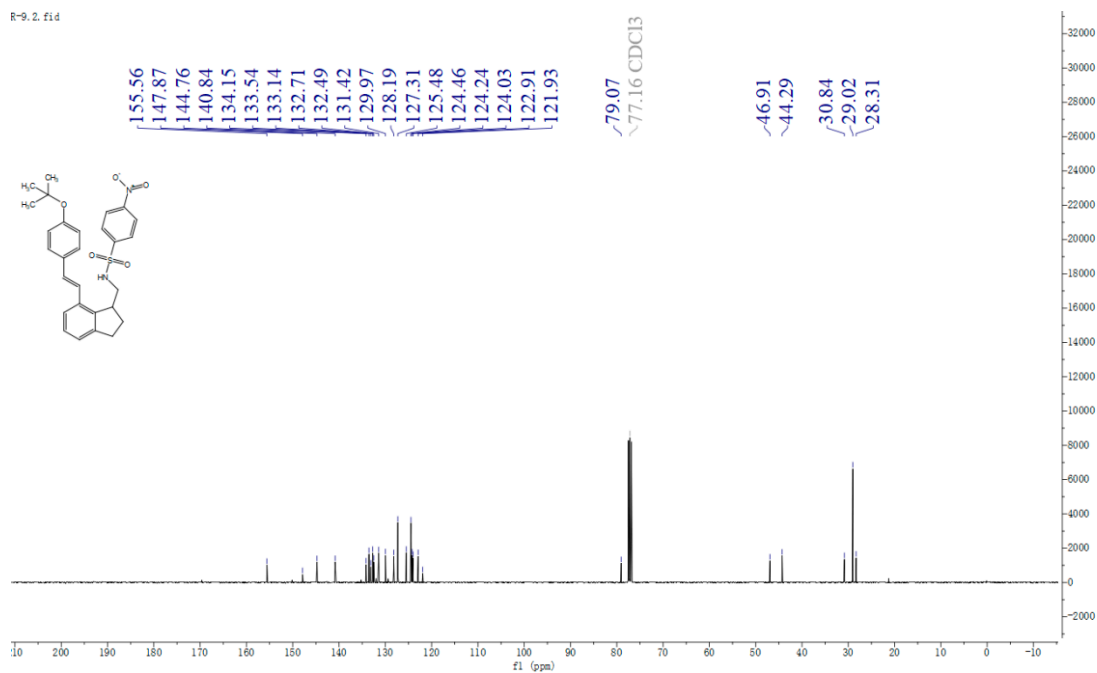
**Figure S47.** The <sup>1</sup>H spectrum (400MHz, CDCl<sub>3</sub>) of **2m**.



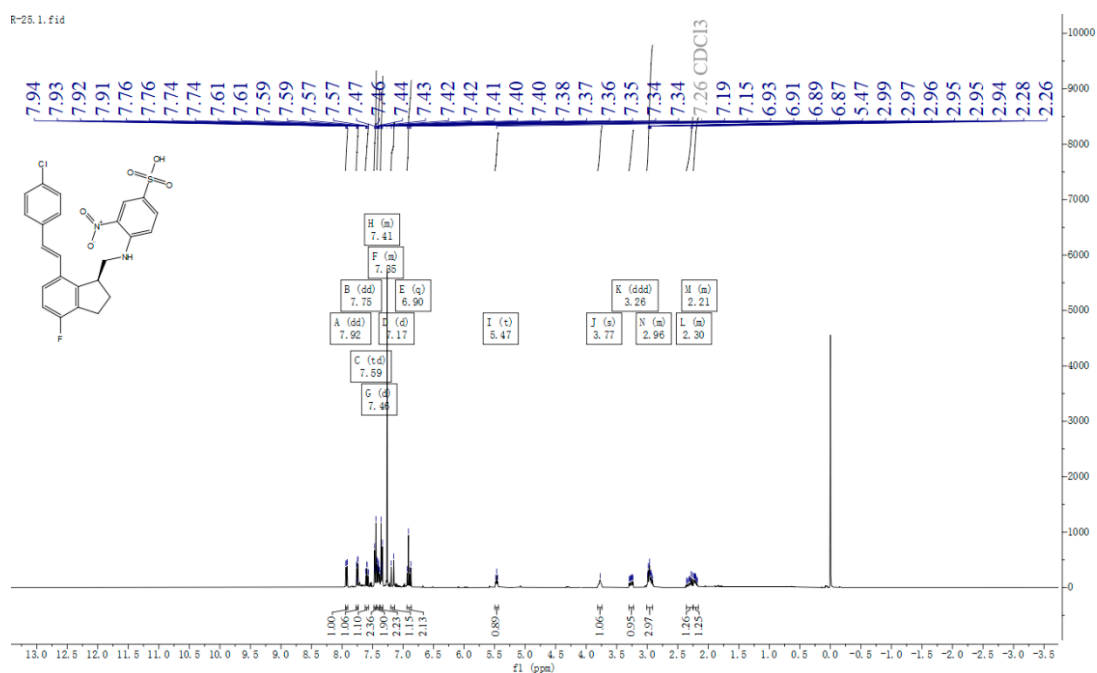
**Figure S48.** The <sup>13</sup>C spectrum (101MHz, CDCl<sub>3</sub>) of **2m**.



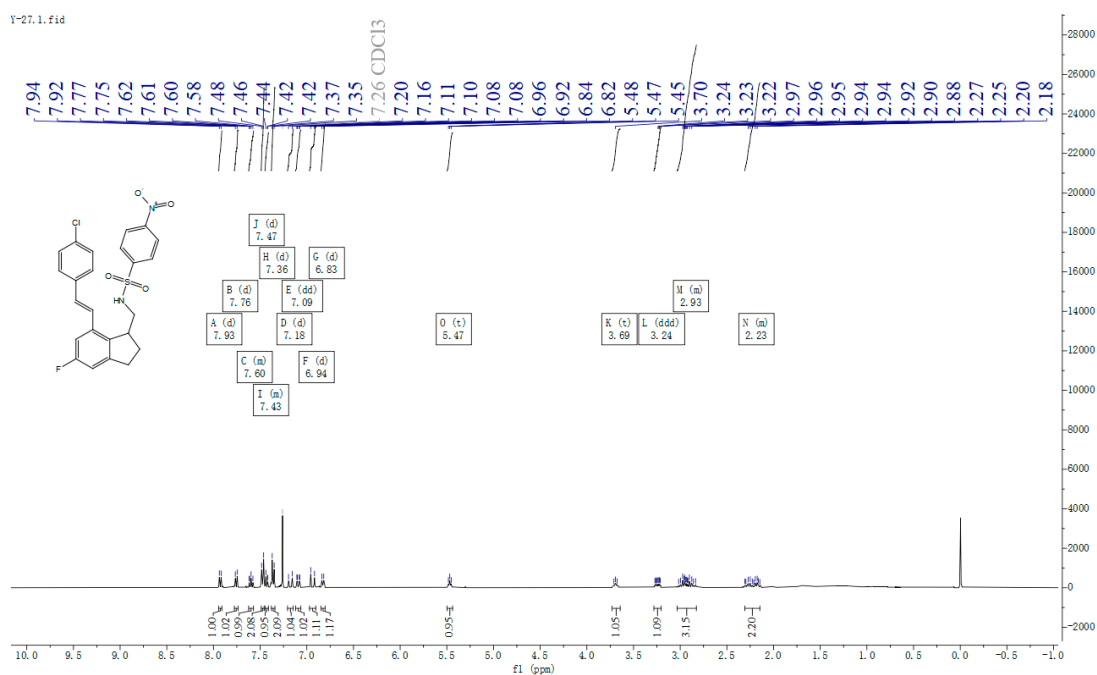
**Figure S49.** The  $^1\text{H}$  spectrum (400MHz,  $\text{CDCl}_3$ ) of 2n.



**Figure S50.** The  $^{13}\text{C}$  spectrum (101MHz,  $\text{CDCl}_3$ ) of 2n.



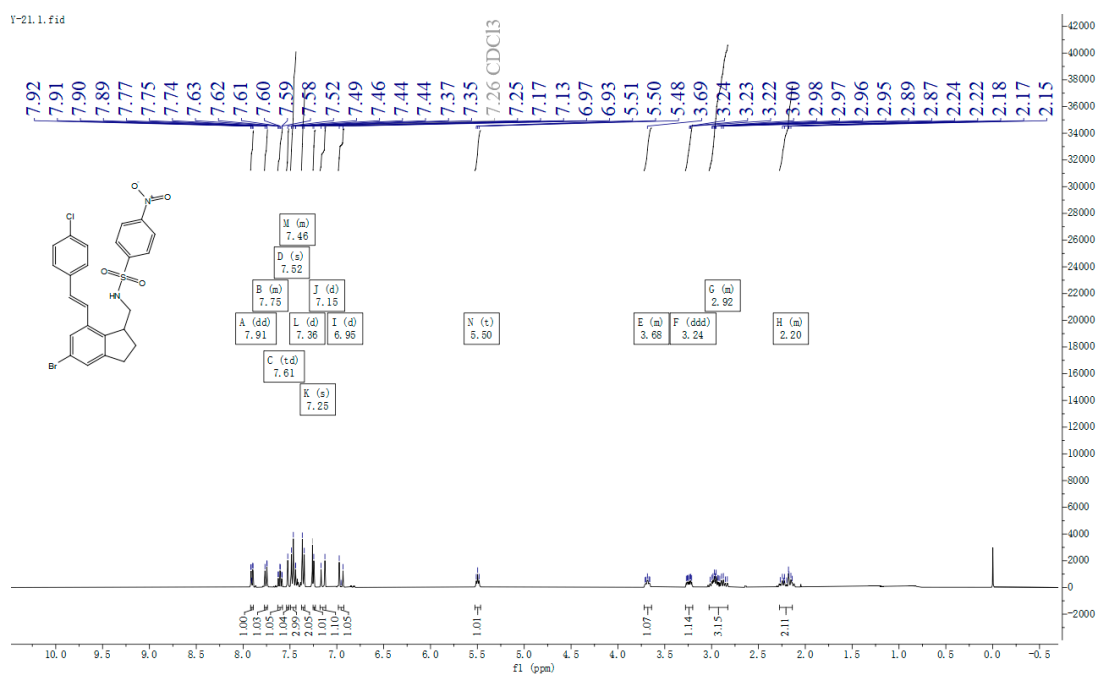
**Figure S51.** The  $^1\text{H}$  spectrum (400MHz,  $\text{CDCl}_3$ ) of **2o**.



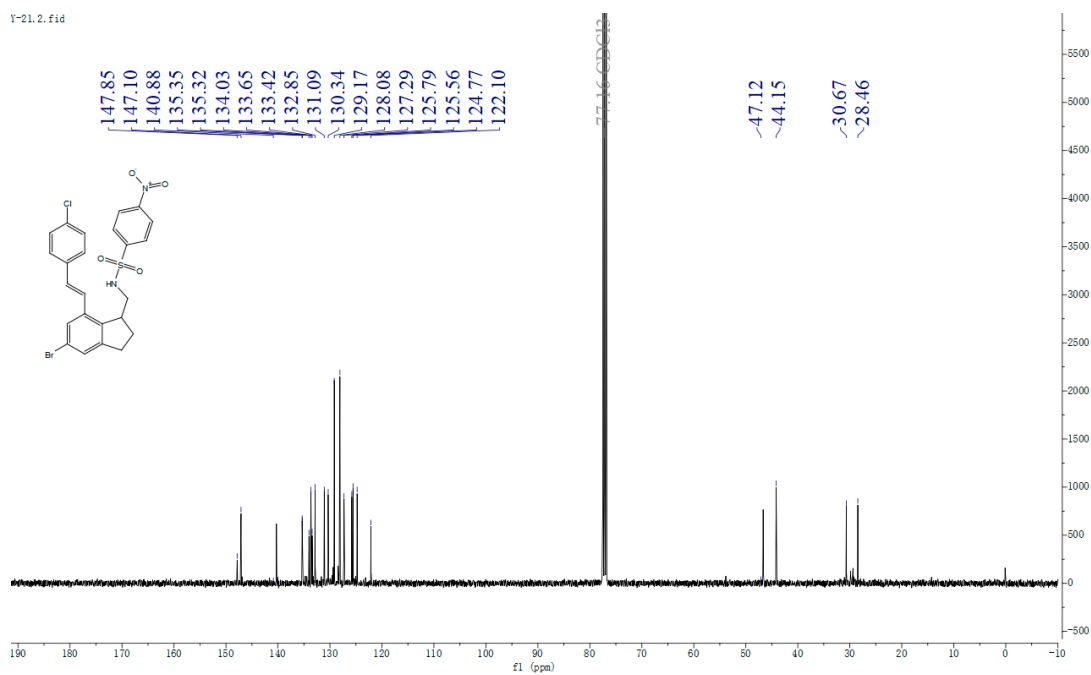
**Figure S52.** The  $^1\text{H}$  spectrum (400MHz,  $\text{CDCl}_3$ ) of **2p**.



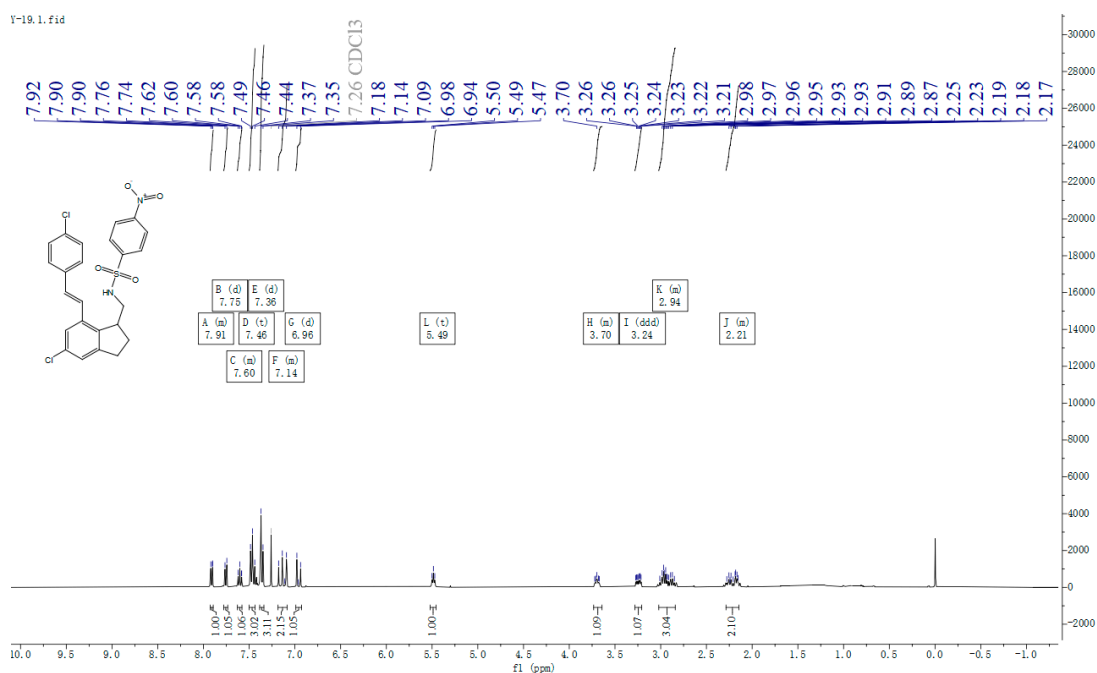




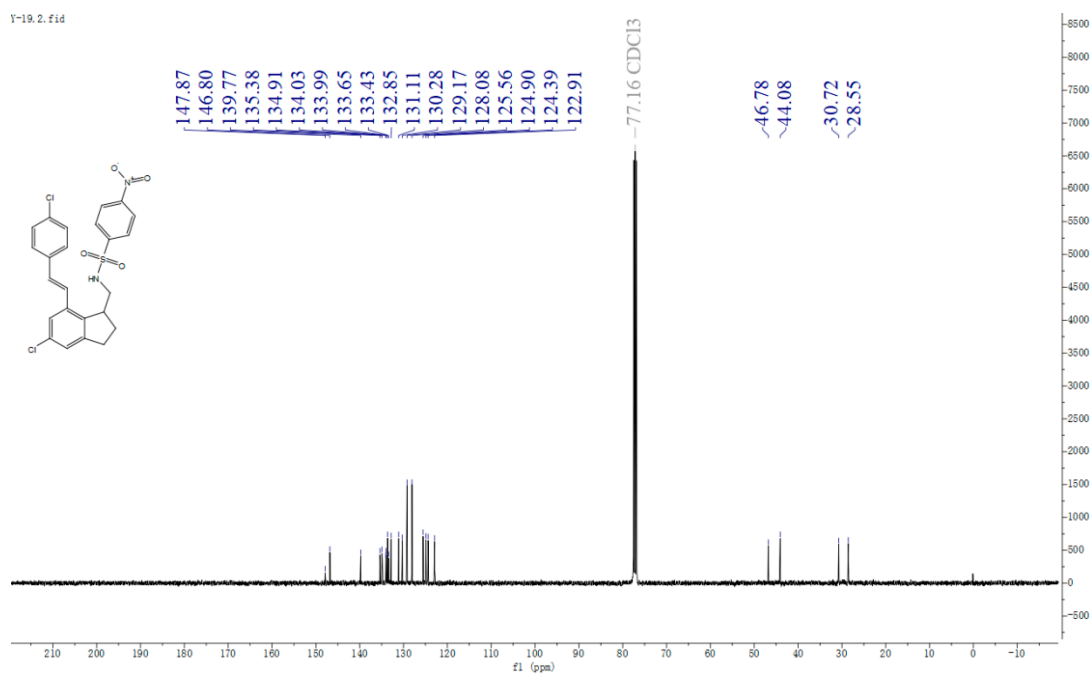
**Figure S55.** The  $^1\text{H}$  spectrum (400MHz,  $\text{CDCl}_3$ ) of **2r**.



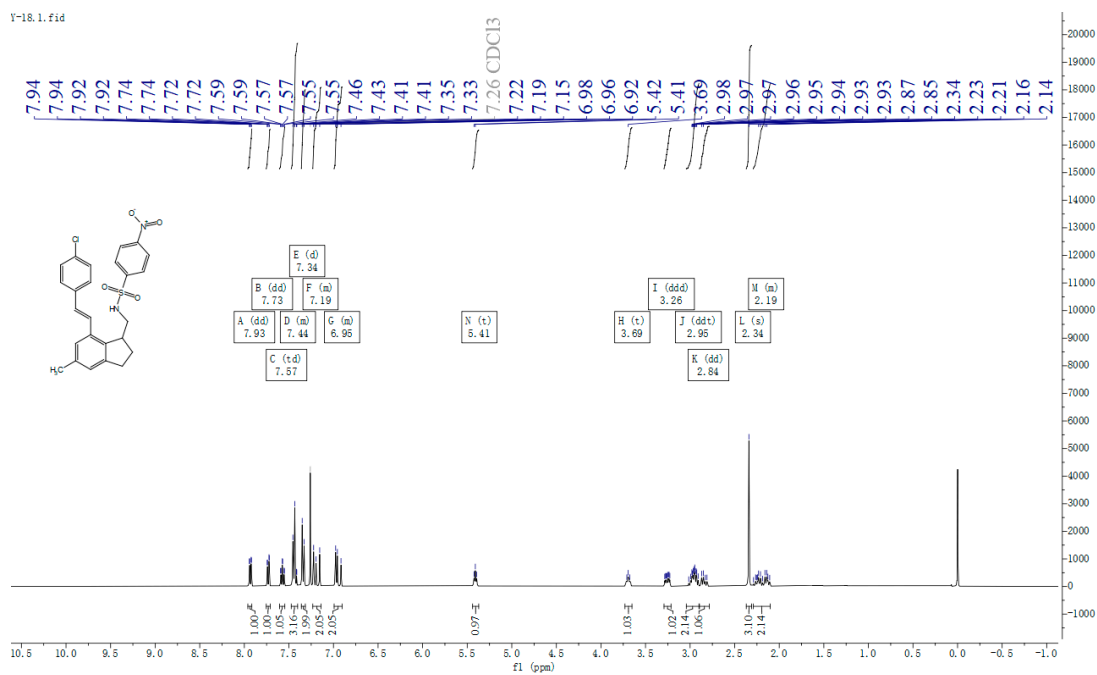
**Figure S56.** The  $^{13}\text{C}$  spectrum (101MHz,  $\text{CDCl}_3$ ) of **2r**.



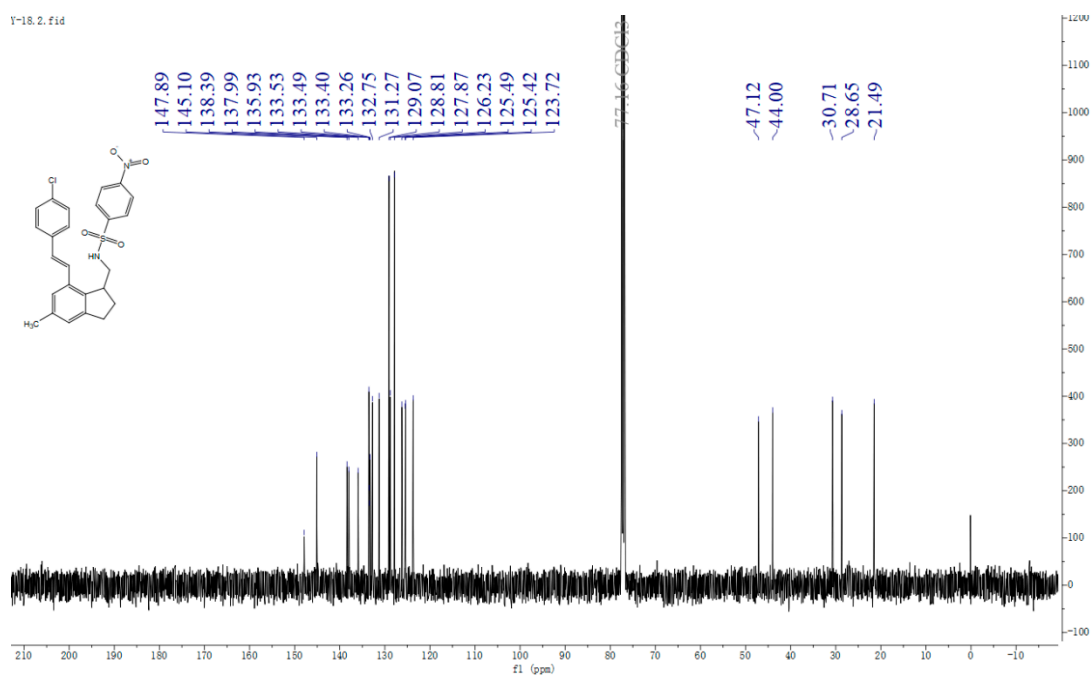
**Figure S57.** The  $^1\text{H}$  spectrum (400MHz,  $\text{CDCl}_3$ ) of **2s**.



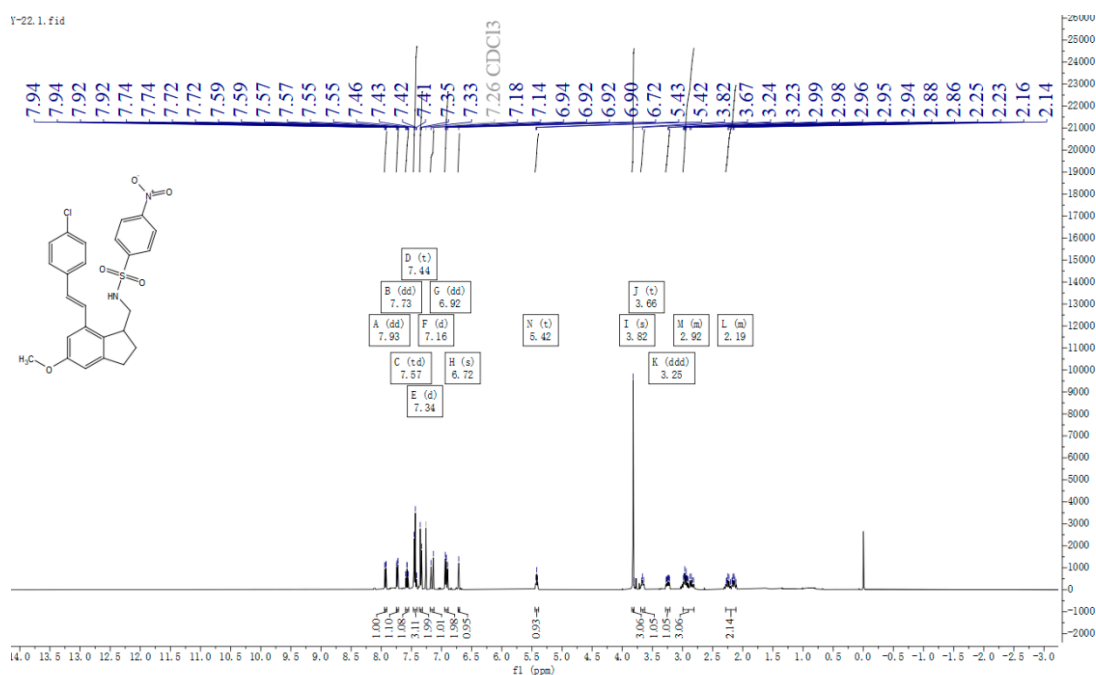
**Figure S58.** The  $^{13}\text{C}$  spectrum (101MHz,  $\text{CDCl}_3$ ) of **2s**.



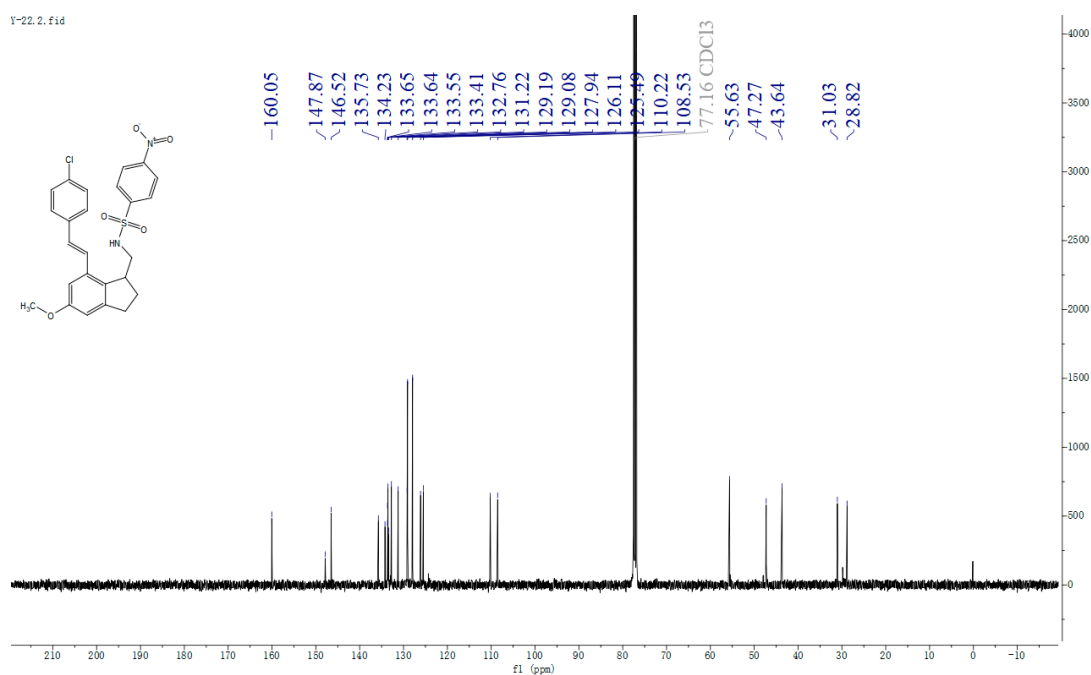
**Figure S59.** The <sup>1</sup>H spectrum (400MHz, CDCl<sub>3</sub>) of 2t.



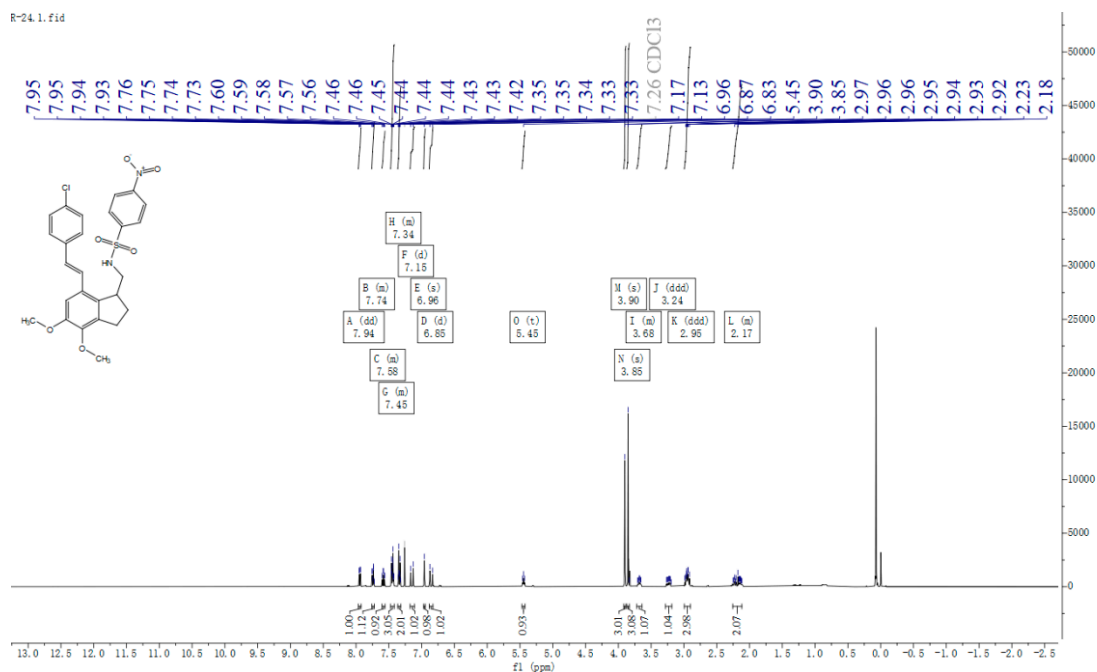
**Figure S60.** The <sup>13</sup>C spectrum (101MHz, CDCl<sub>3</sub>) of 2t.



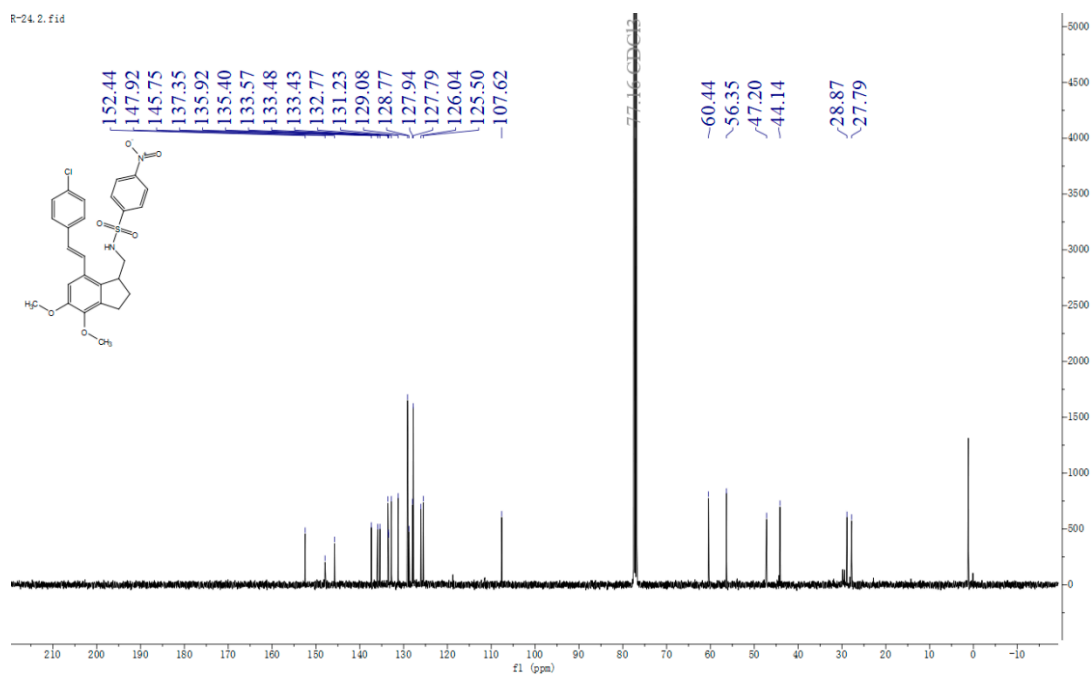
**Figure S61.** The  $^1\text{H}$  spectrum (400MHz,  $\text{CDCl}_3$ ) of **2u**.



**Figure S62.** The  $^{13}\text{C}$  spectrum (101MHz,  $\text{CDCl}_3$ ) of **2u**.

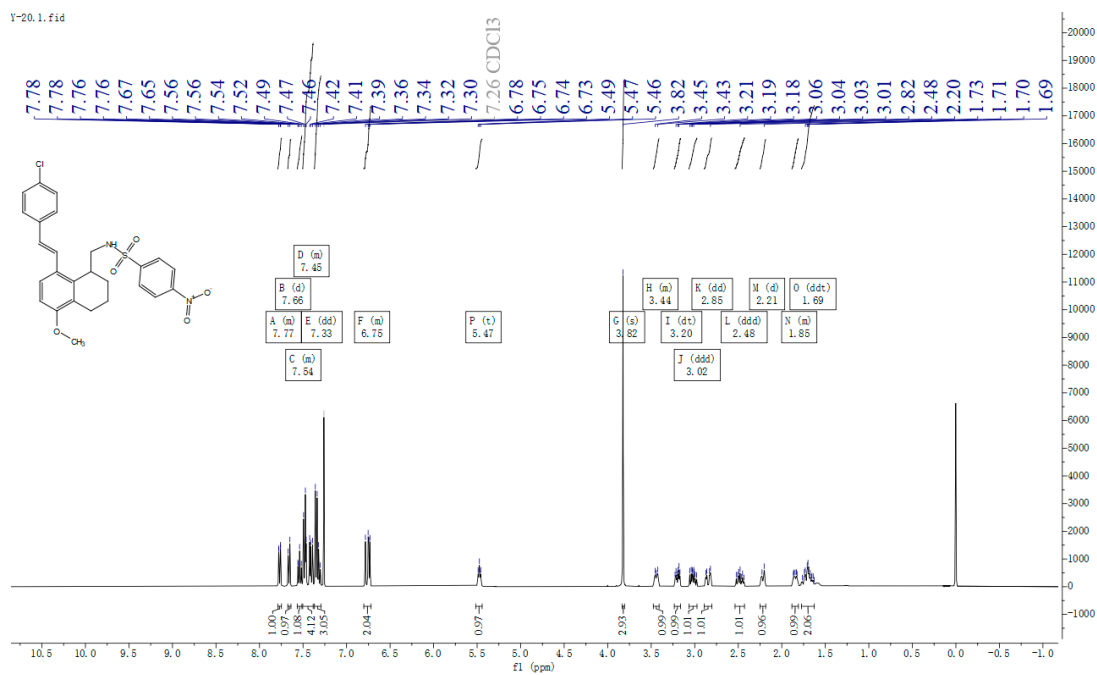


**Figure S63.** The <sup>1</sup>H spectrum (400MHz, CDCl<sub>3</sub>) of 2v.

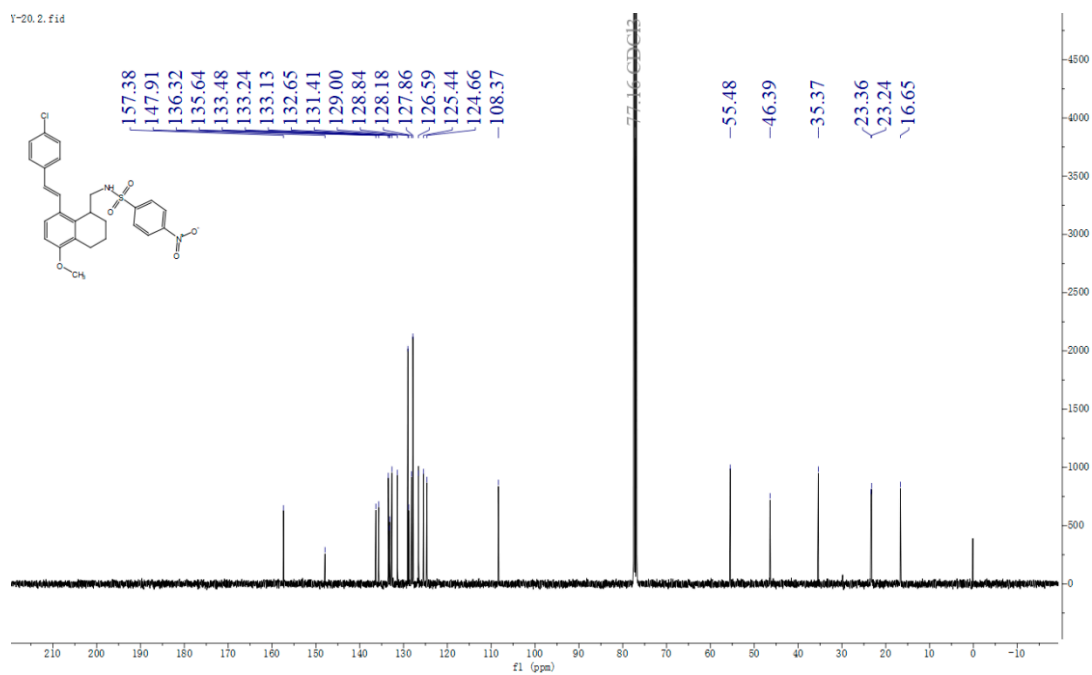


**Figure S64.** The <sup>13</sup>C spectrum (101MHz, CDCl<sub>3</sub>) of 2v.



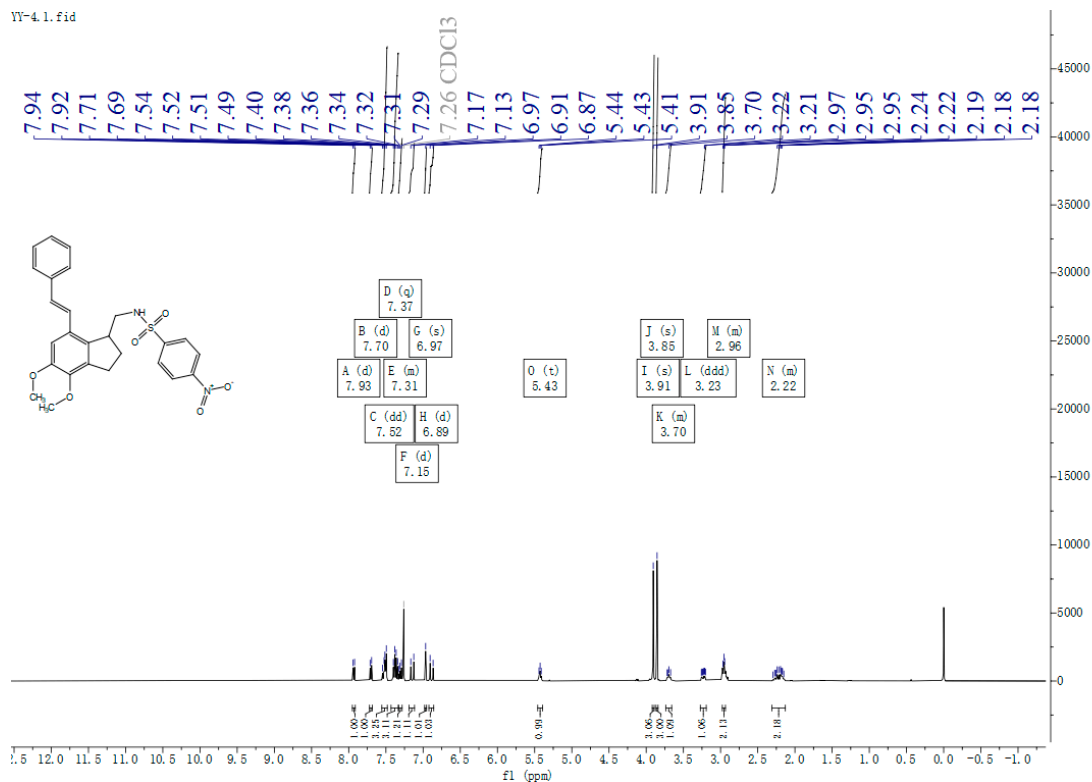


**Figure S67.** The <sup>1</sup>H spectrum (400MHz, CDCl<sub>3</sub>) of **2x**.

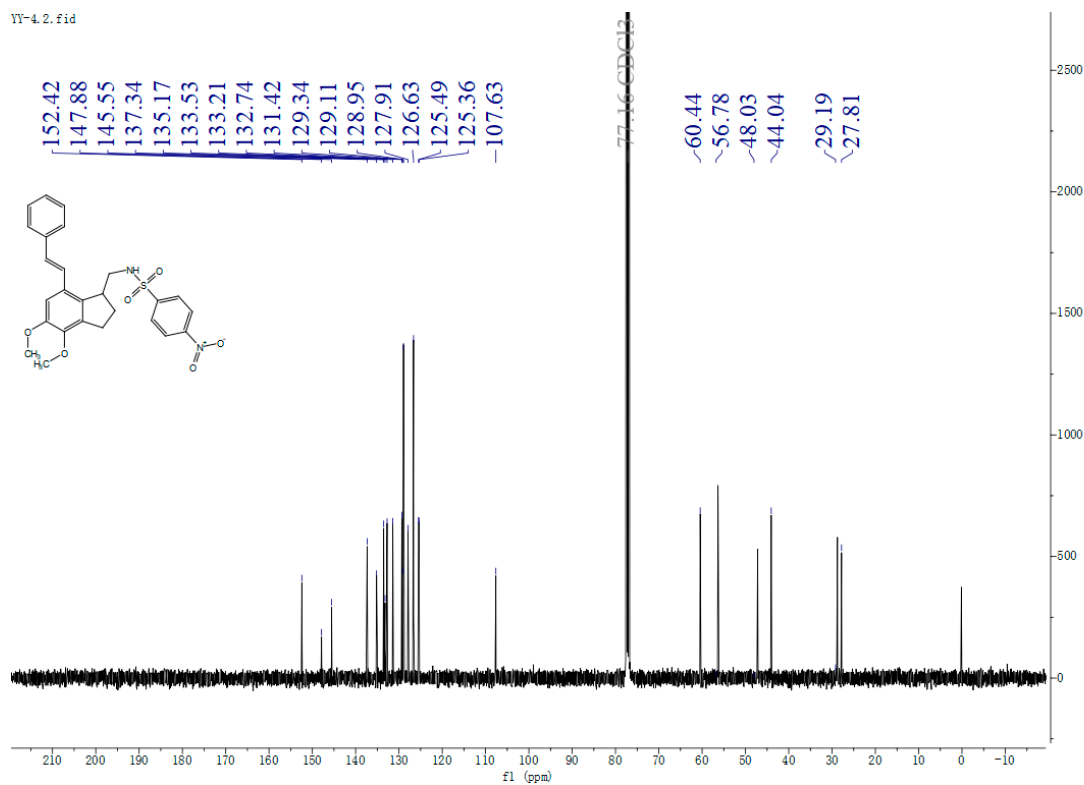


**Figure S68.** The <sup>13</sup>C spectrum (101MHz, CDCl<sub>3</sub>) of **2x**.

3 The  $^1\text{H}$  spectrum and  $^{13}\text{C}$  spectrum of 3, 5, 6 and 7.

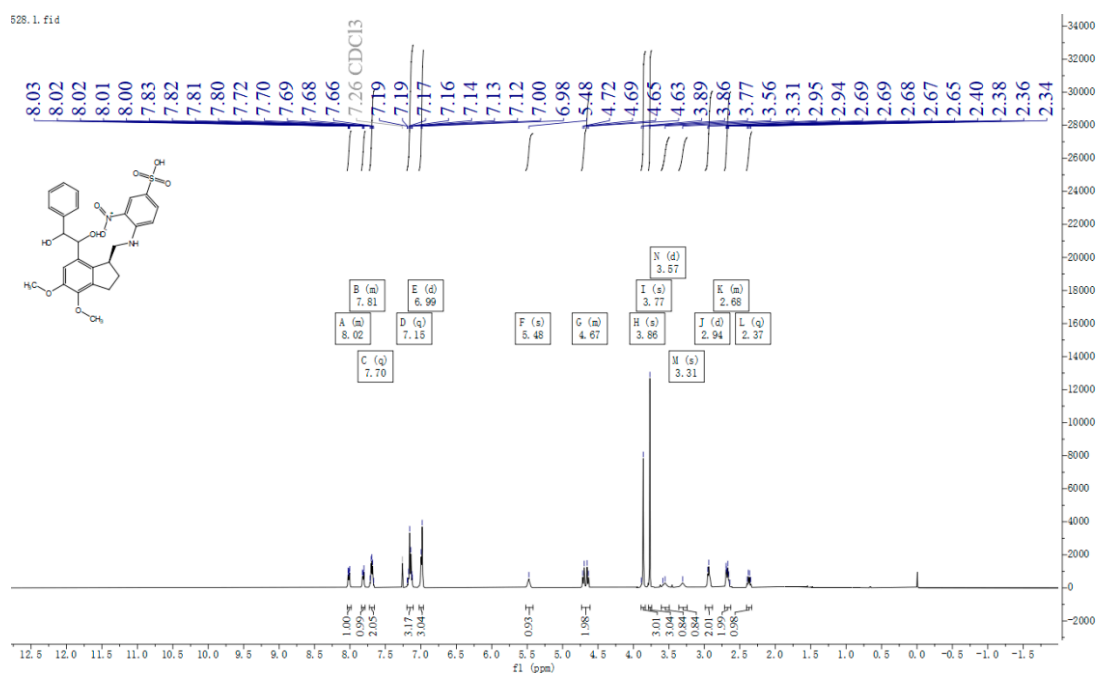


**Figure S69.** The  $^1\text{H}$  spectrum (400MHz,  $\text{CDCl}_3$ ) of 3.

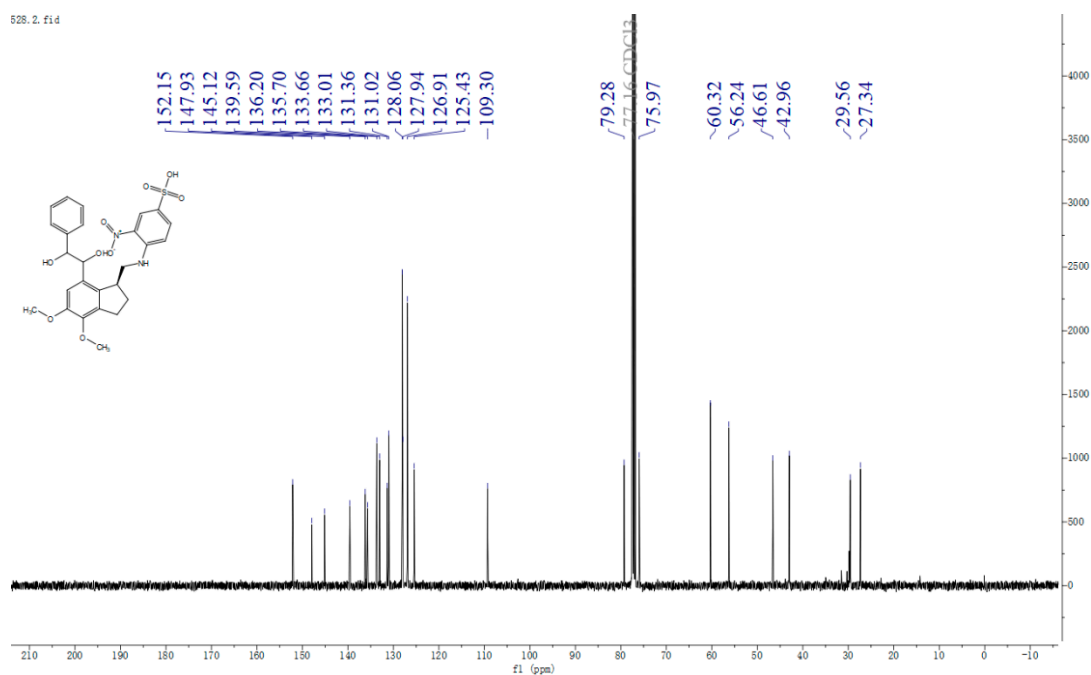


**Figure S70.** The  $^{13}\text{C}$  spectrum (101MHz,  $\text{CDCl}_3$ ) of 3.

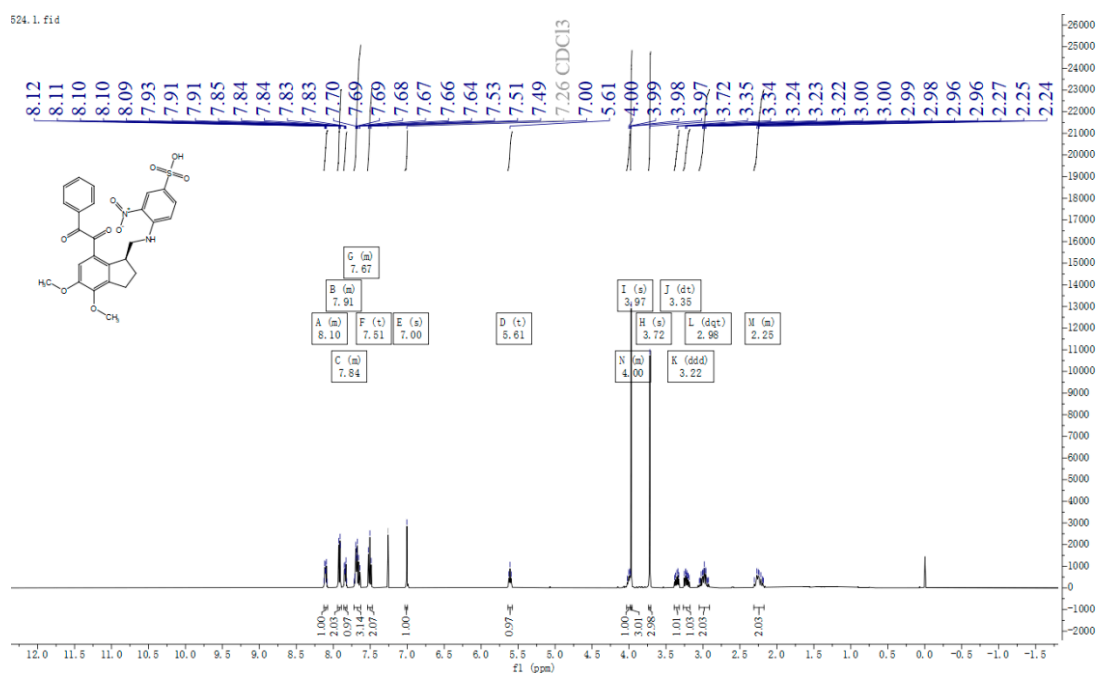




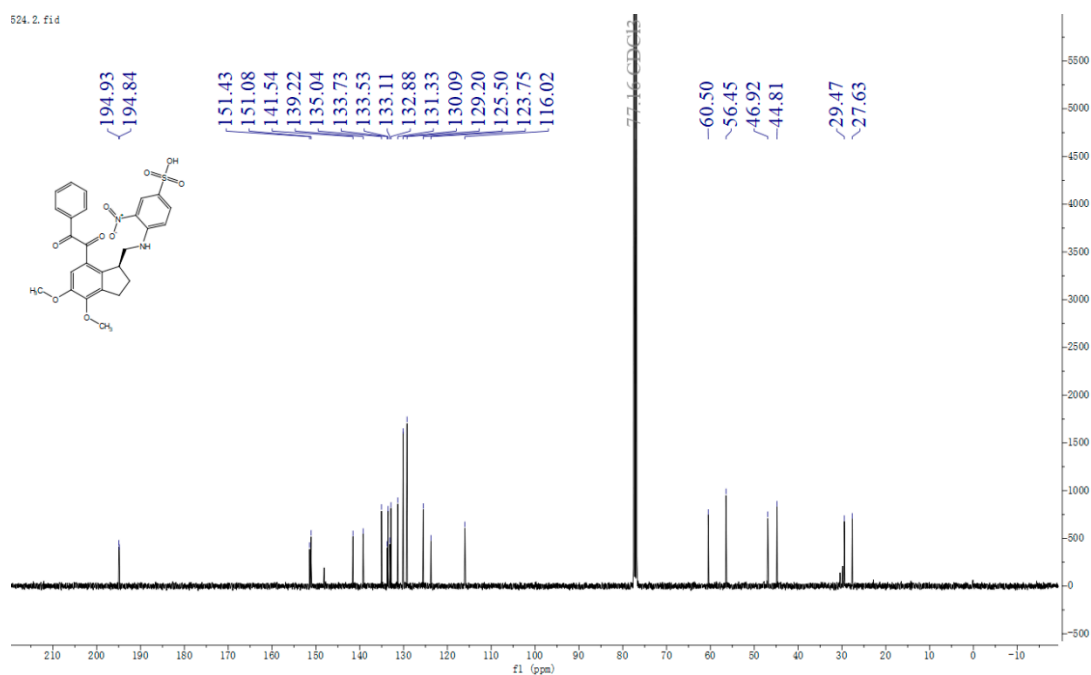
**Figure S71.** The  $^1\text{H}$  spectrum (400MHz,  $\text{CDCl}_3$ ) of **5**.



**Figure S72.** The  $^{13}\text{C}$  spectrum (101MHz,  $\text{CDCl}_3$ ) of **5**.

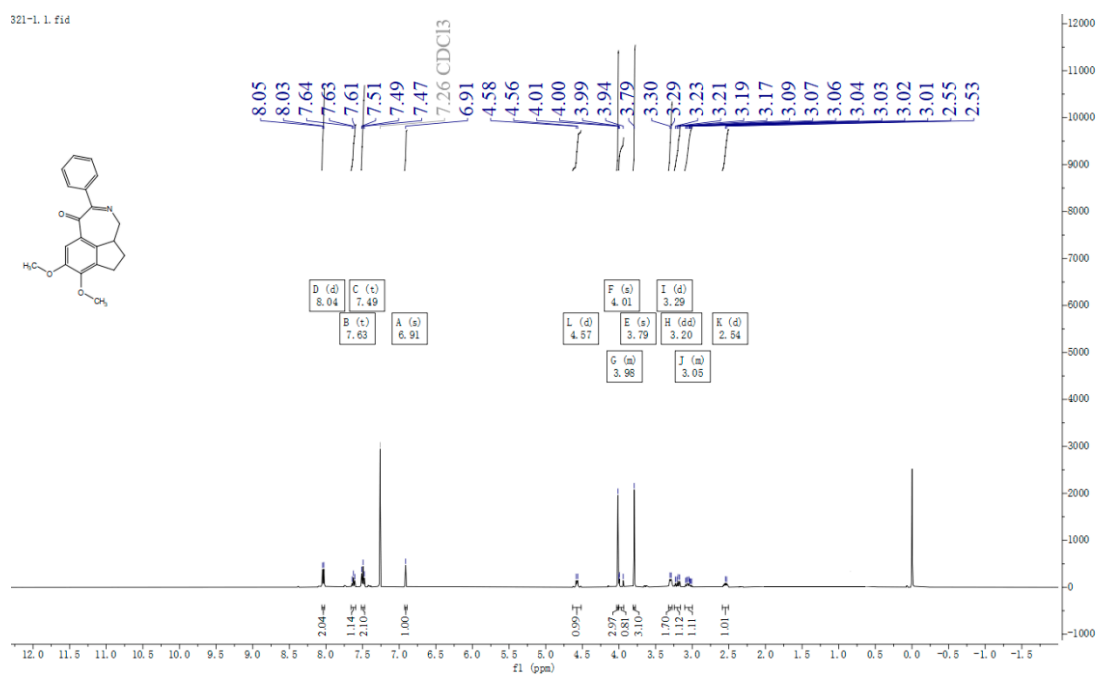


**Figure S73.** The  $^1\text{H}$  spectrum (400MHz,  $\text{CDCl}_3$ ) of **6**.



**Figure S74.** The  $^{13}\text{C}$  spectrum (101MHz,  $\text{CDCl}_3$ ) of **6**.

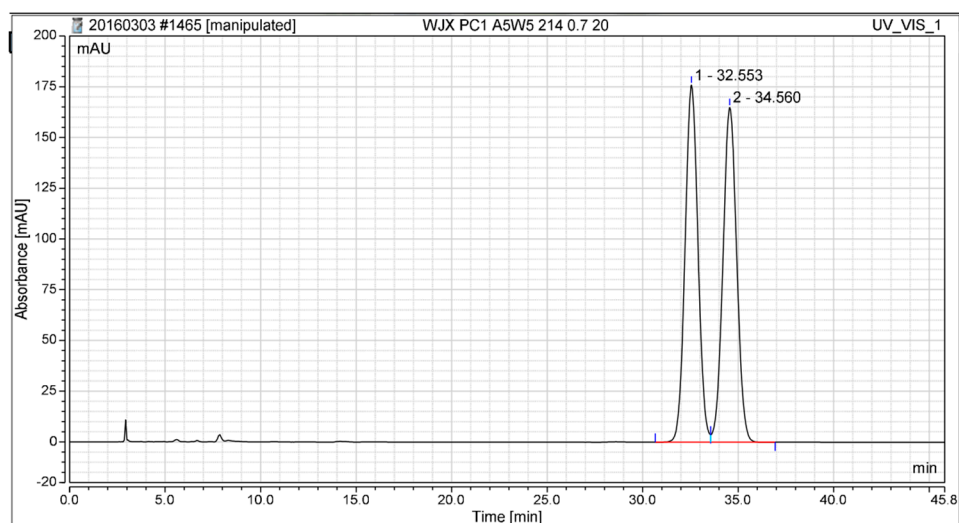
321-1.1.fid



**Figure S75.** The <sup>1</sup>H spectrum (400MHz, CDCl<sub>3</sub>) of 7.

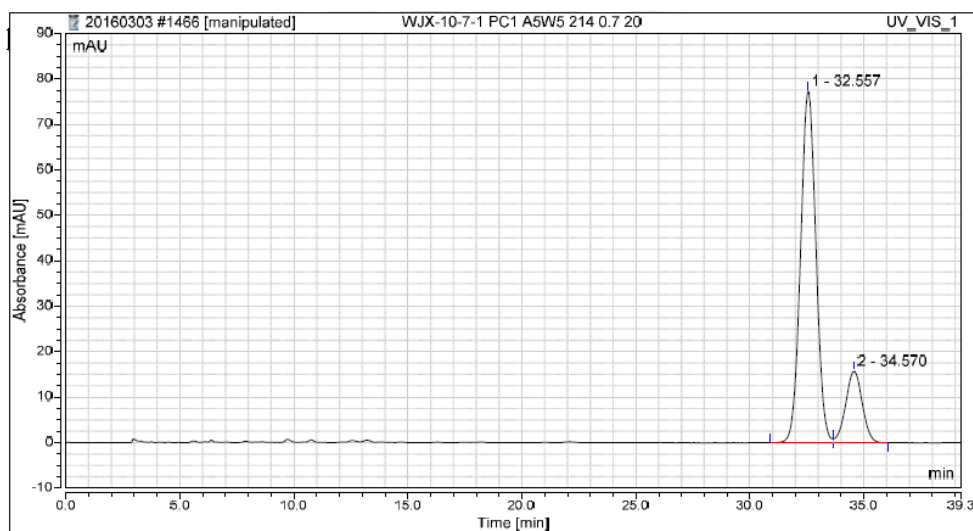
4. The HPLC data of **1a** and **2a** in Table 1.

a



Integration Results				
No.	Retention Time min	Area mAU*min	Height mAU	Relative Area %
1	32.553	137.655	175.951	50.00
2	34.560	137.635	165.000	50.00
Total:		275.290	340.951	100.00

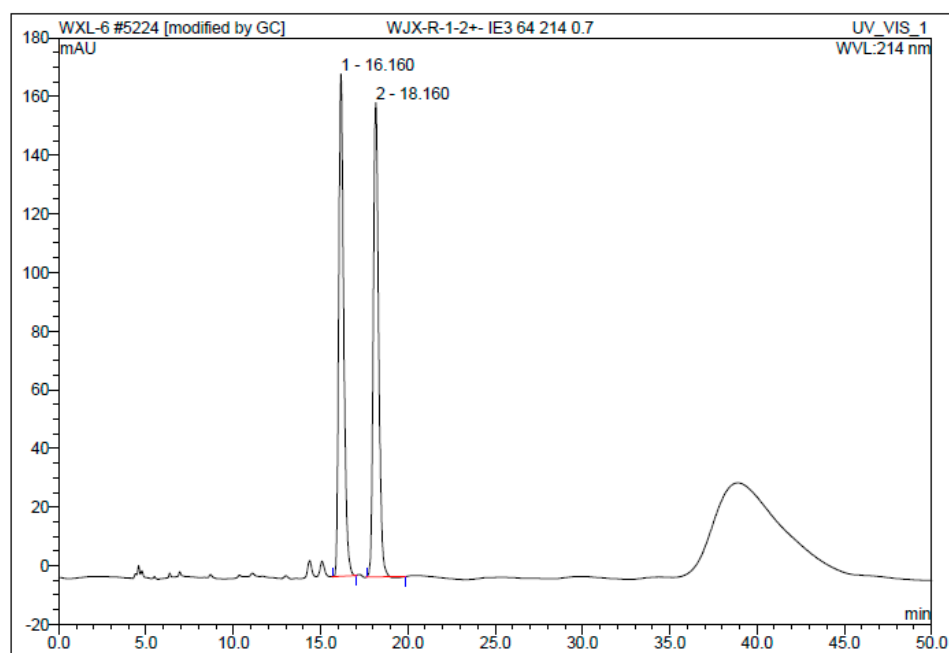
b



Integration Results				
No.	Retention Time min	Area mAU*min	Height mAU	Relative Area %
1	32.557	60.389	77.338	81.94
2	34.570	13.309	15.781	18.06
Total:		73.699	93.119	100.00

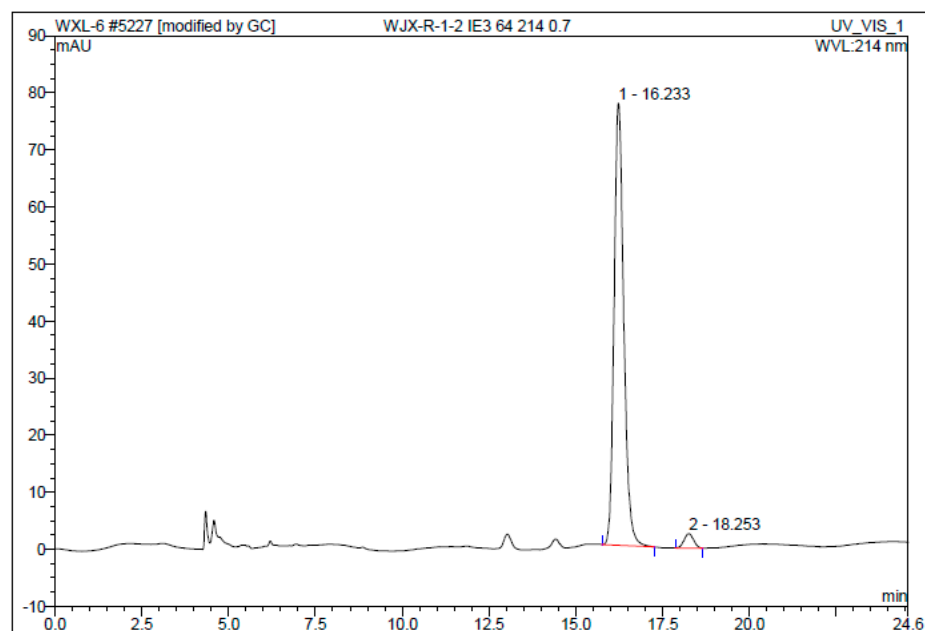
Figure S76. The HPLC data of **1a** of entry 6 in Table 1.

a



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	16.16	n.a.	171.396	57.015	50.05	n.a.	BMB*
2	18.16	n.a.	161.771	56.898	49.95	n.a.	BMB*
<b>Total:</b>			333.167	113.913	100.00	0.000	

b



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	16.23	n.a.	77.488	25.036	96.90	n.a.	BMB
2	18.25	n.a.	2.522	0.801	3.10	n.a.	BMB
<b>Total:</b>			80.010	25.837	100.00	0.000	

Figure S77. The HPLC data of **2a** of entry 6 in Table 1.

5 The HPLC Data of **1ab-an** and **2b-n** in Scheme 1.

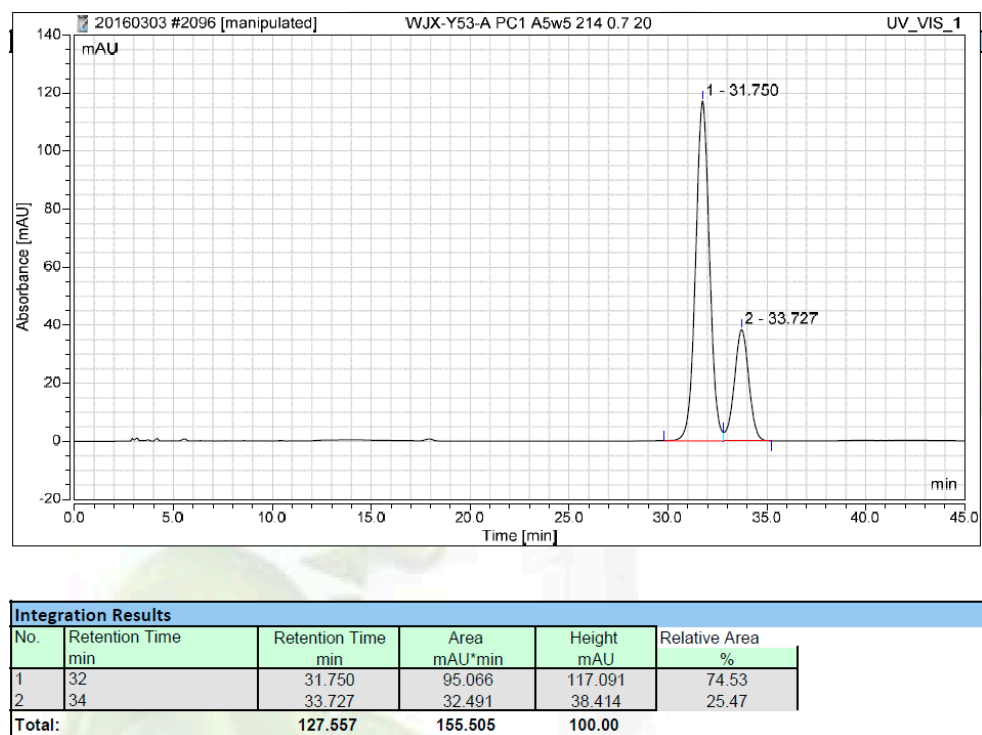
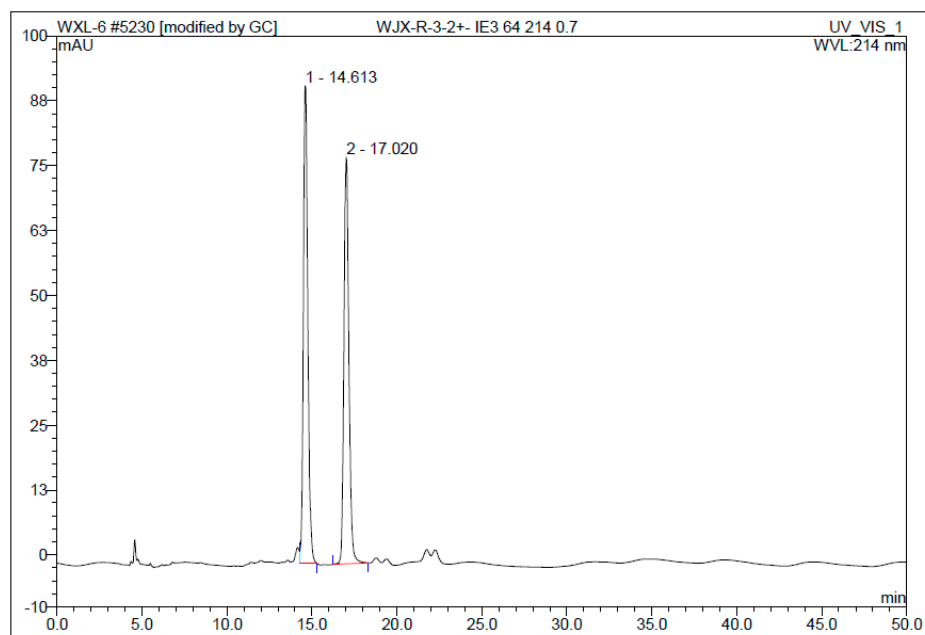


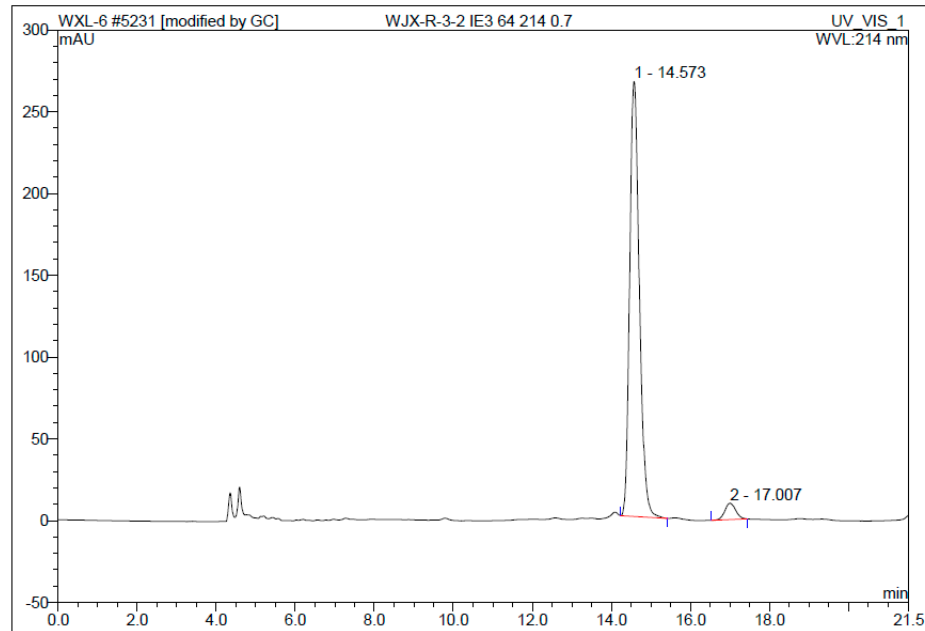
Figure S78. The HPLC data of **1ab** in Scheme 1.

a



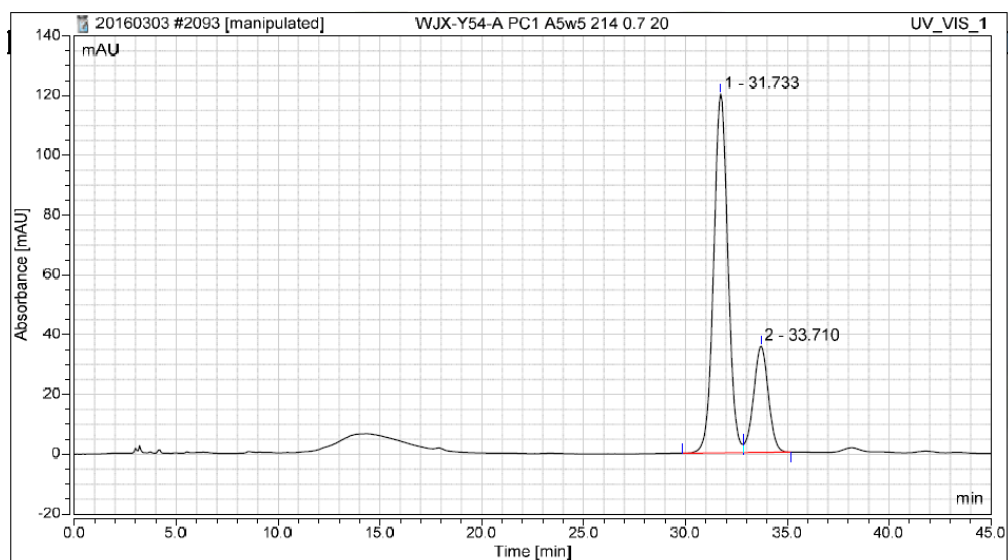
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	14.61	n.a.	92.089	27.747	51.16	n.a.	MB*
2	17.02	n.a.	78.352	26.487	48.84	n.a.	BMB
Total:			170.441	54.233	100.00	0.000	

b



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	14.57	n.a.	266.005	75.194	95.96	n.a.	BMB*
2	17.01	n.a.	9.935	3.166	4.04	n.a.	BMB*
Total:			275.940	78.360	100.00	0.000	

Figure S79. The HPLC data of **2b** in Scheme 1.

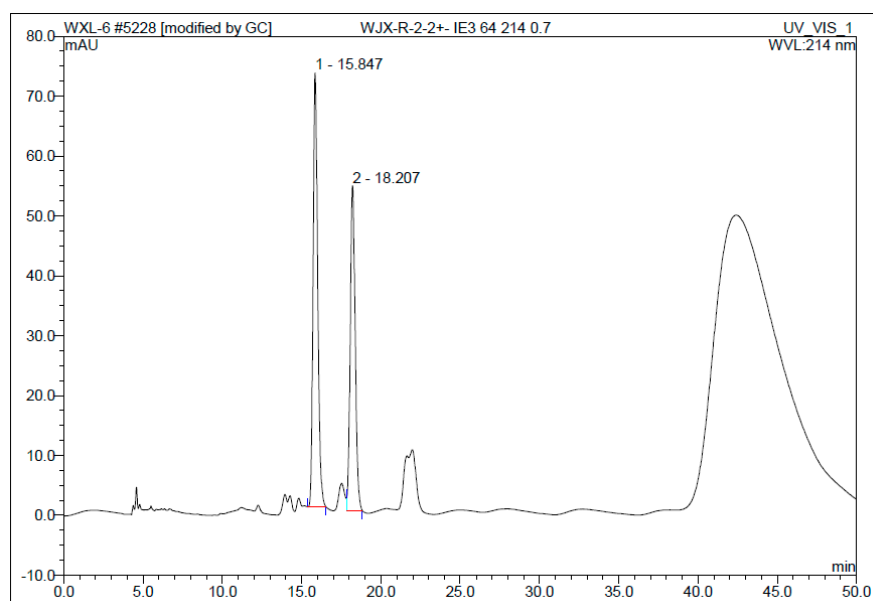


Integration Results					
No.	Retention Time min	Retention Time min	Area mAU*min	Height mAU	Relative Area %
1	32	31.733	97.154	120.188	76.42
2	34	33.710	29.971	35.659	23.58
Total:		127.125	155.848	100.00	

Figure S80. The HPLC data of **1ac** in Scheme 1.

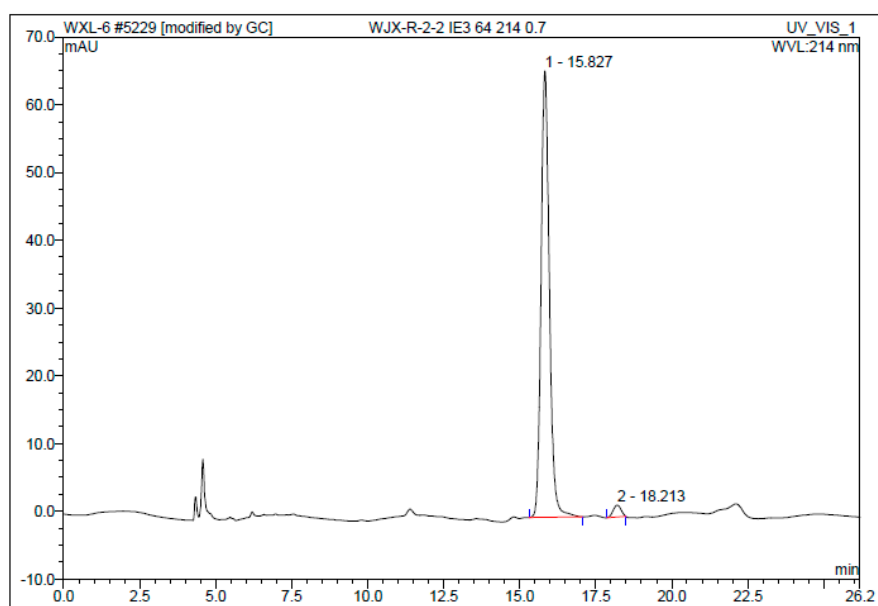


a



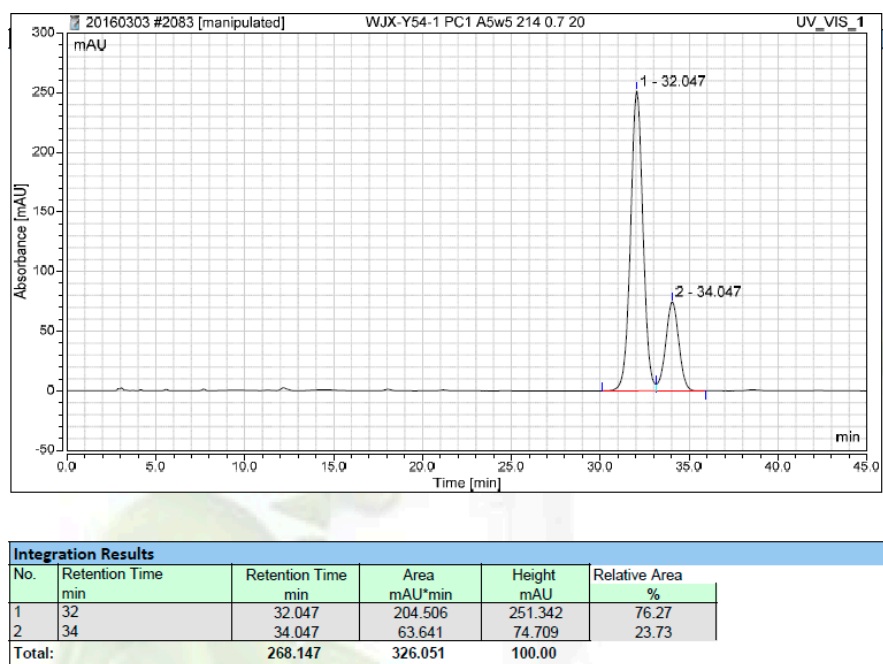
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	15.85	n.a.	72.510	24.421	55.23	n.a.	BMB*
2	18.21	n.a.	54.260	19.799	44.77	n.a.	MB*
<b>Total:</b>			126.770	44.219	100.00	0.000	

b



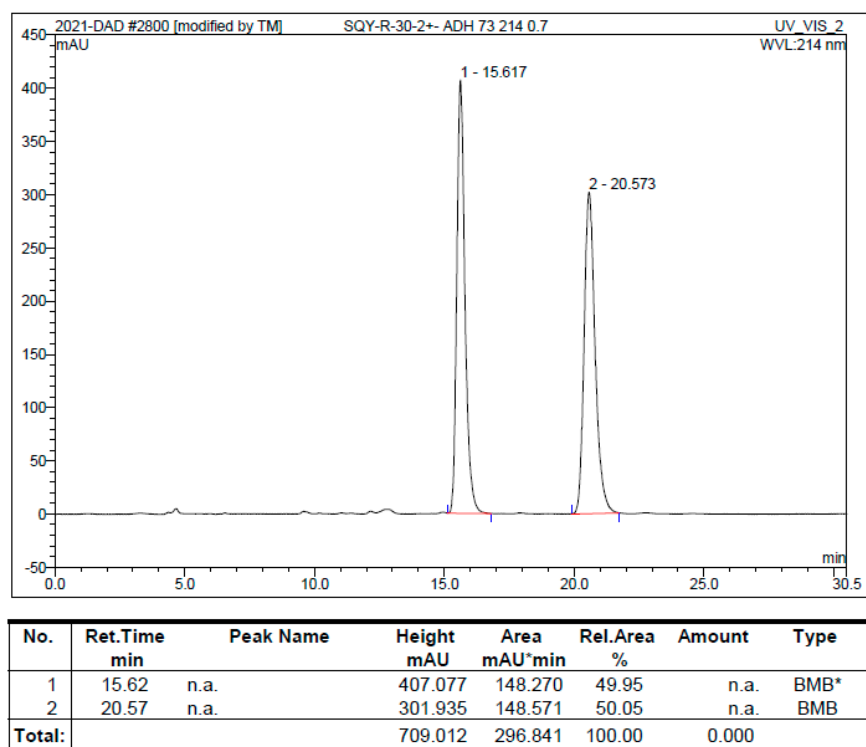
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	15.83	n.a.	65.875	20.908	97.55	n.a.	BMB
2	18.21	n.a.	1.753	0.526	2.45	n.a.	BMB*
<b>Total:</b>			67.628	21.434	100.00	0.000	

**Figure S81.** The HPLC data of **2c** in Scheme 1.



**Figure S82.** The HPLC data of **1ad** in Scheme 1.

a



b

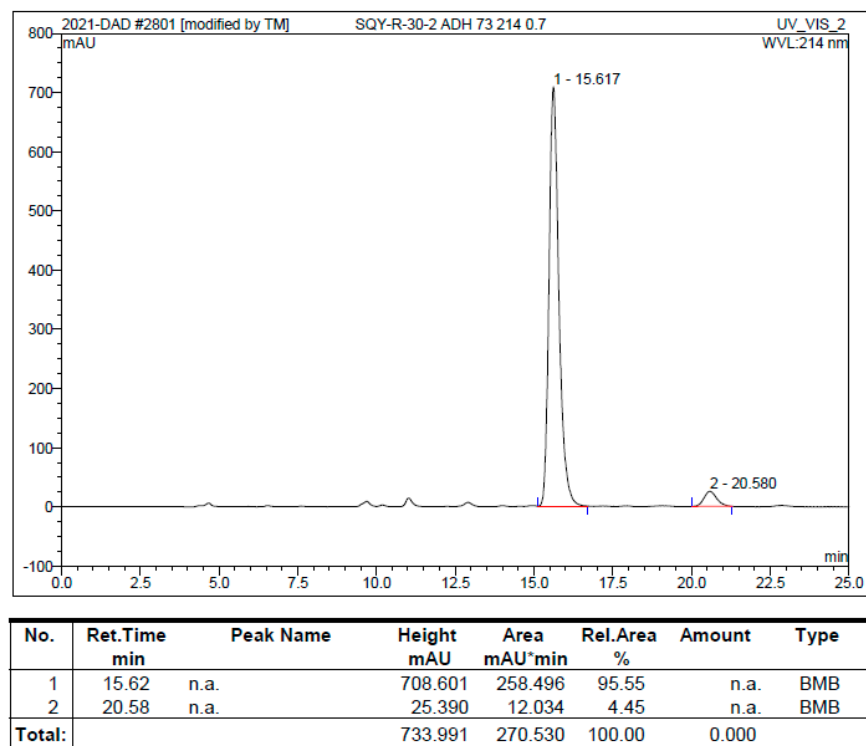
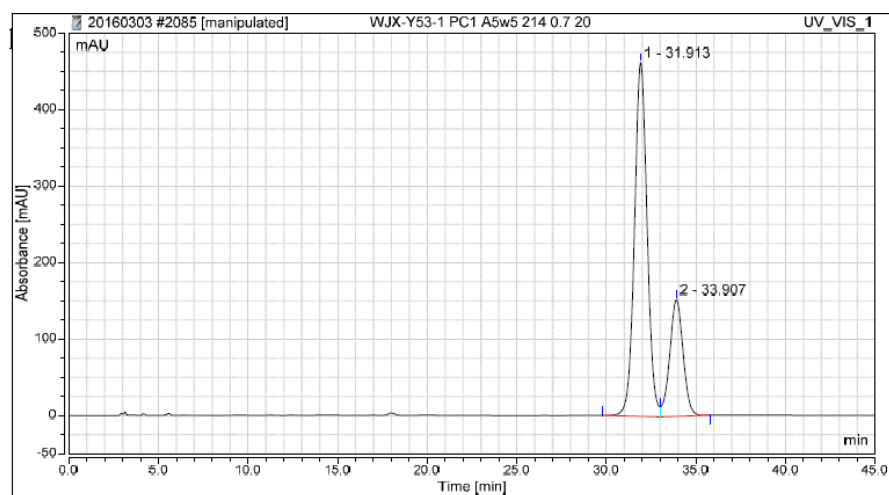


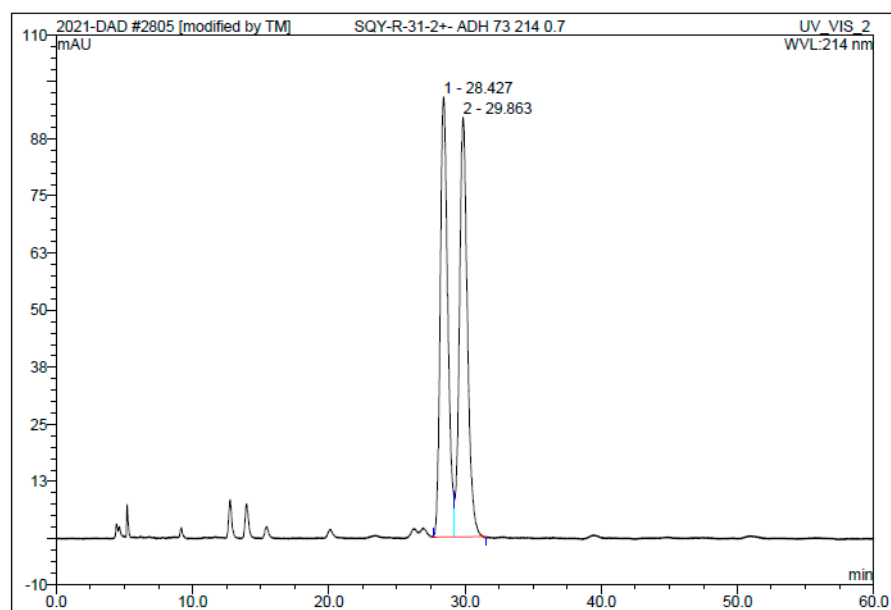
Figure S83. The HPLC data of **2d** in Scheme 1.



Integration Results					
No.	Retention Time min	Retention Time min	Area mAU*min	Height mAU	Relative Area %
1	32	31.913	378.811	462.695	74.16
2	34	33.907	131.987	152.756	25.84
Total:		510.798	615.451	100.00	

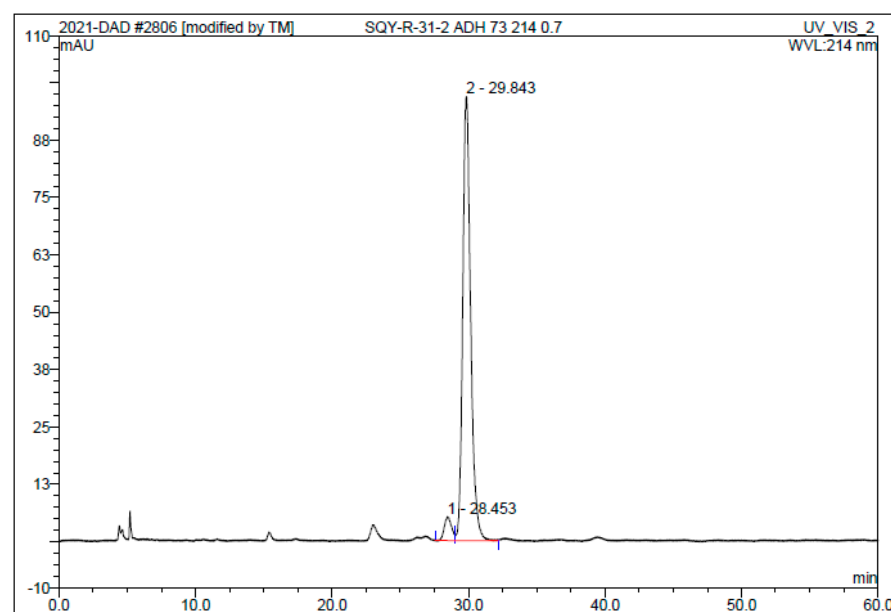
**Figure S84.** The HPLC data of **1ae** in Scheme 1.

a



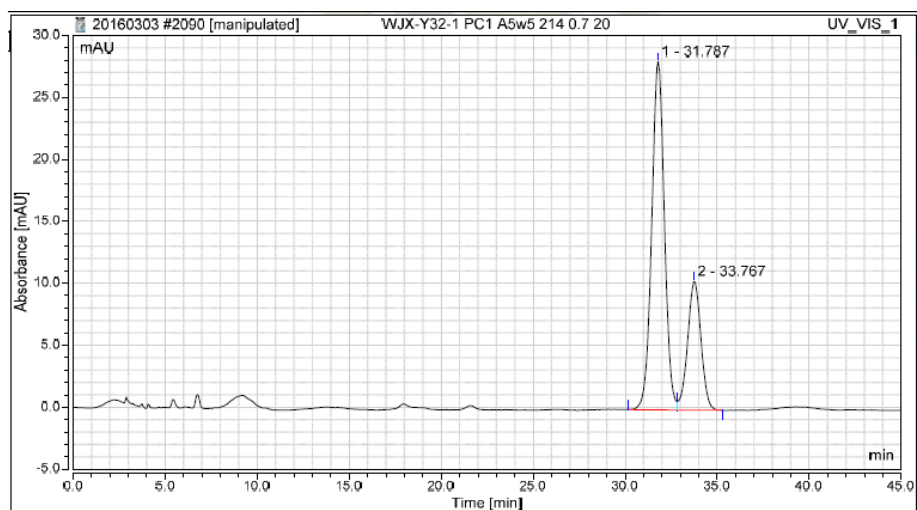
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	28.43	n.a.	96.336	61.657	49.69	n.a.	BM *
2	29.86	n.a.	91.844	62.436	50.31	n.a.	MB*
Total:			188.179	124.093	100.00	0.000	

b



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	28.45	n.a.	5.188	3.150	4.63	n.a.	BM *
2	29.84	n.a.	96.727	64.928	95.37	n.a.	MB*
Total:			101.915	68.078	100.00	0.000	

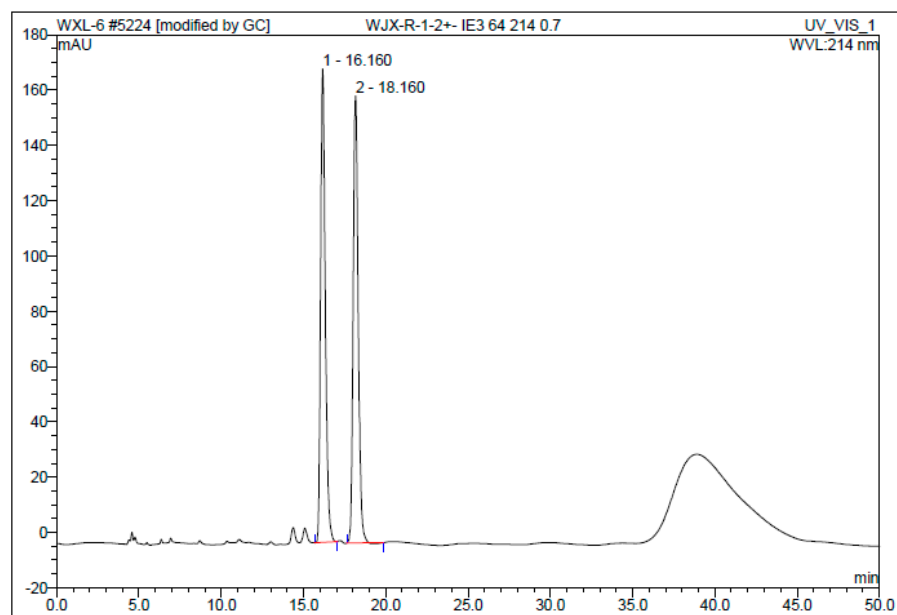
Figure S85. The HPLC data of 2e in Scheme 1.



Integration Results					
No.	Retention Time min	Retention Time min	Area mAU*min	Height mAU	Relative Area %
1	32	31.787	22.506	28.087	71.97
2	34	33.767	8.764	10.399	28.03
Total:		31.271	38.486	100.00	

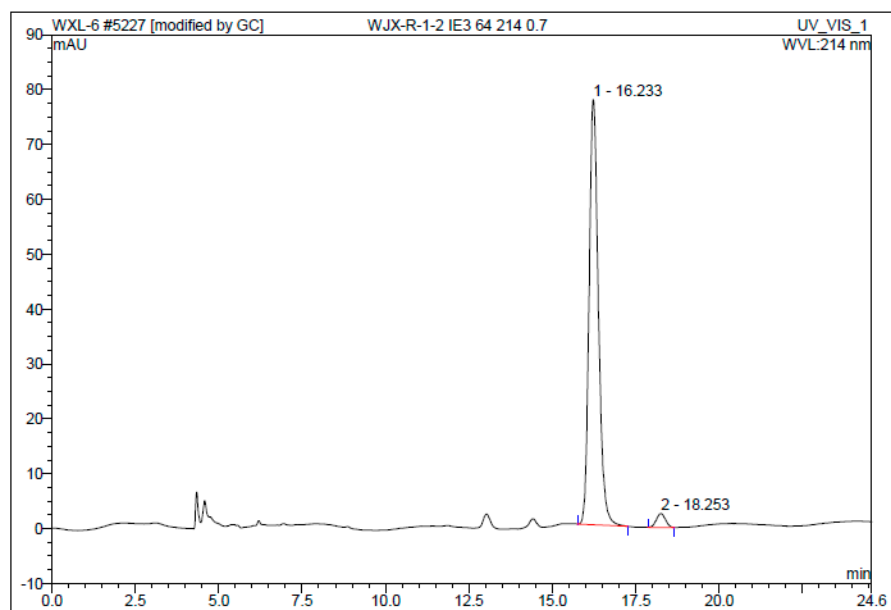
**Figure S86.** The HPLC data of **1af** in Scheme 1.

a



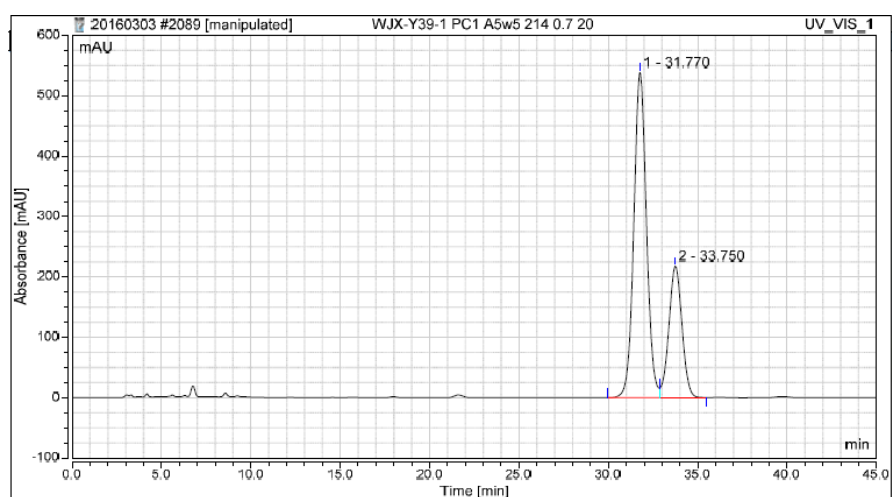
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	16.16	n.a.	171.396	57.015	50.05	n.a.	BMB*
2	18.16	n.a.	161.771	56.898	49.95	n.a.	BMB*
<b>Total:</b>			333.167	113.913	100.00	0.000	

b



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	16.23	n.a.	77.488	25.036	96.90	n.a.	BMB
2	18.25	n.a.	2.522	0.801	3.10	n.a.	BMB
<b>Total:</b>			80.010	25.837	100.00	0.000	

Figure S87. The HPLC data of **2f** in Scheme 1.

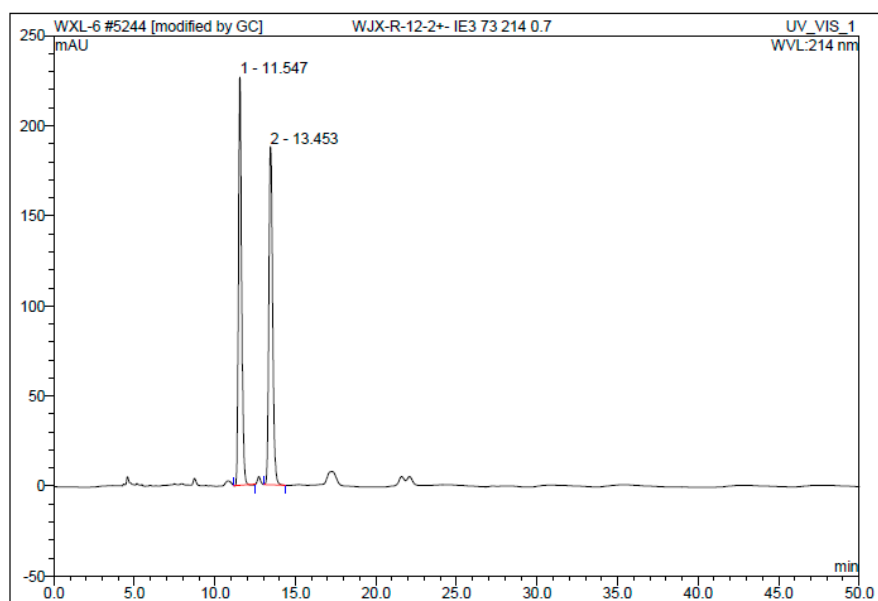


Integration Results					
No.	Retention Time min	Retention Time min	Area mAU*min	Height mAU	Relative Area %
1	32	31.770	440.427	538.262	70.46
2	34	33.750	184.674	217.817	29.54
Total:		625.102	756.078	100.00	

**Figure S88.** The HPLC data of **1ag** in Scheme 1.

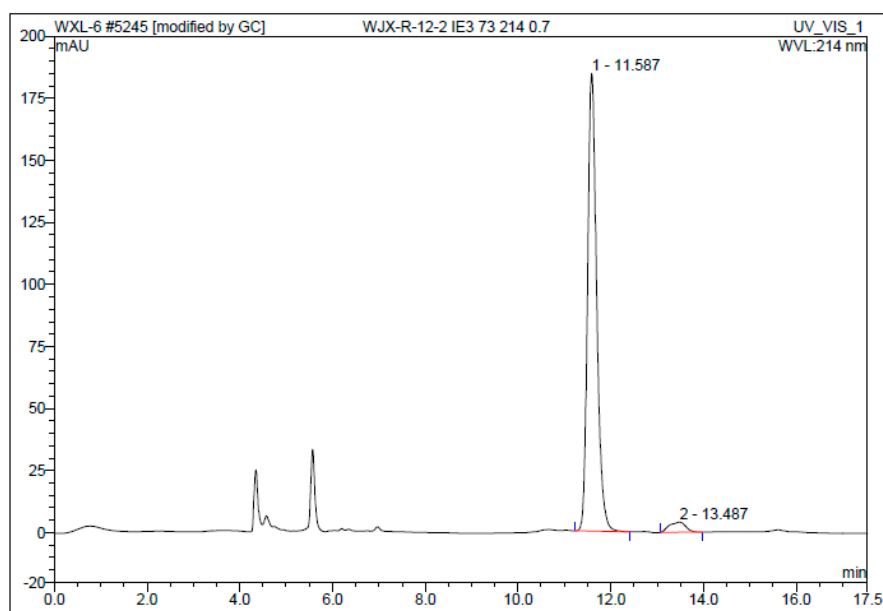


a



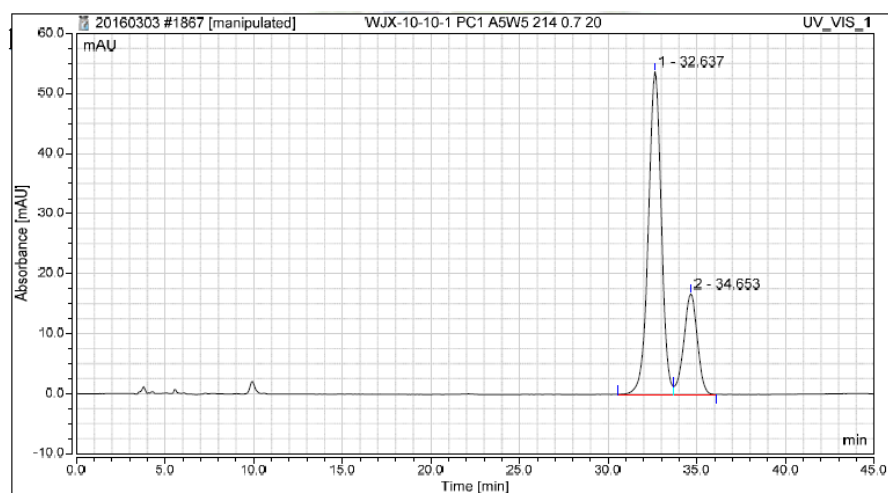
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	11.55	n.a.	226.585	52.036	50.49	n.a.	BMB*
2	13.45	n.a.	187.758	51.029	49.51	n.a.	BMB*
<b>Total:</b>			414.343	103.065	100.00	0.000	

b



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	11.59	n.a.	184.389	41.907	96.20	n.a.	BMB
2	13.49	n.a.	4.034	1.657	3.80	n.a.	BMB*
<b>Total:</b>			188.423	43.564	100.00	0.000	

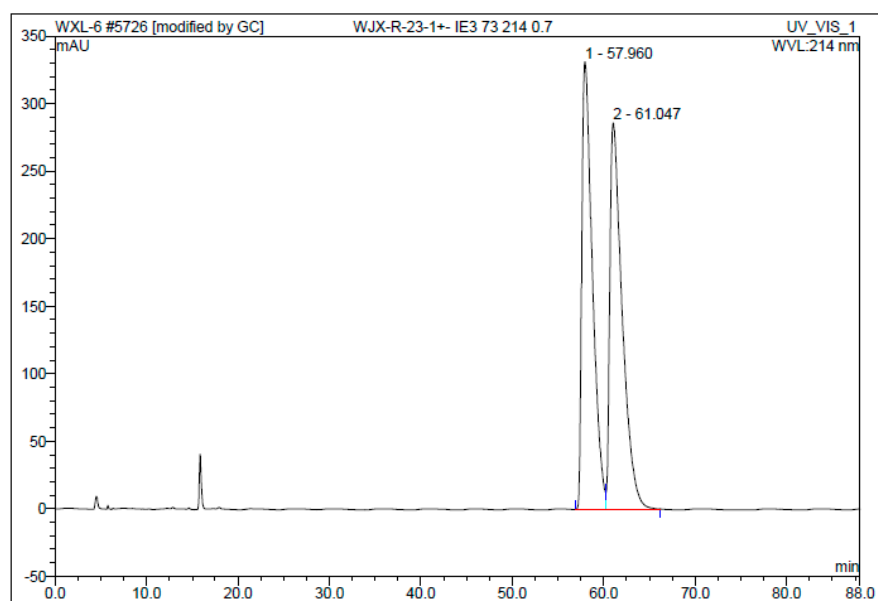
Figure S89. The HPLC data of **2g** in Scheme 1.



Integration Results					
No.	Retention Time min	Retention Time min	Area mAU*min	Height mAU	Relative Area %
1	33	32.637	45.424	53.781	75.44
2	35	34.653	14.791	16.760	24.56
Total:		60.216	70.541	100.00	

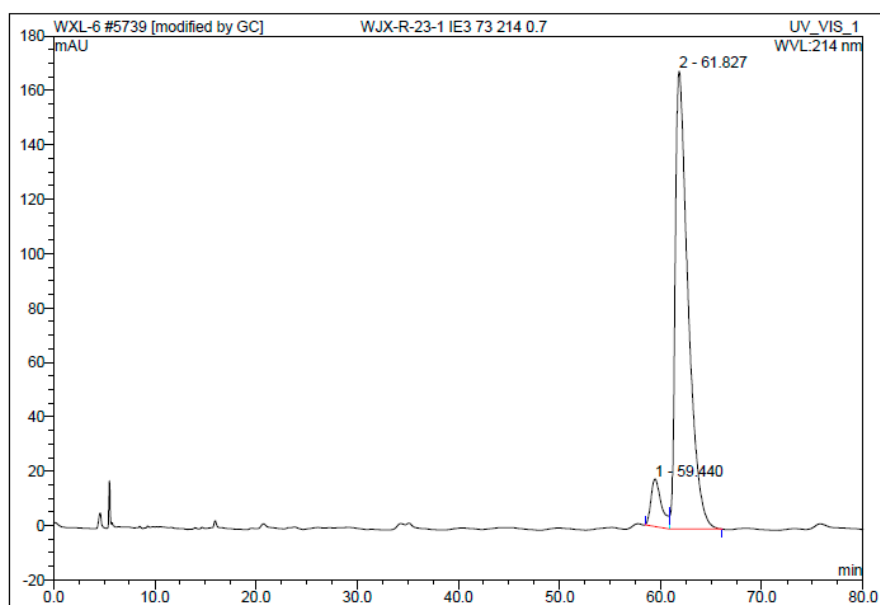
**Figure S90.** The HPLC data of **1ah** in Scheme 1.

a



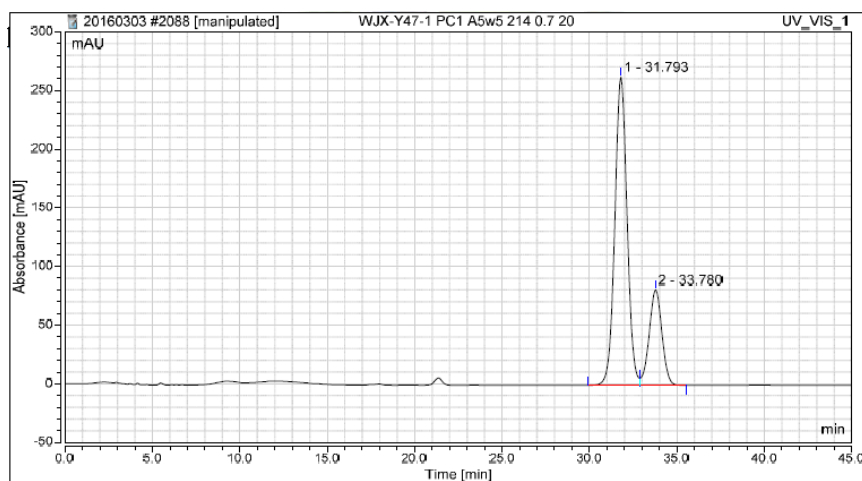
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	57.96	n.a.	331.591	442.612	49.58	n.a.	BM *
2	61.05	n.a.	286.148	450.117	50.42	n.a.	MB*
Total:			617.739	892.729	100.00	0.000	

b



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	59.44	n.a.	17.472	20.980	7.79	n.a.	BM *
2	61.83	n.a.	168.376	248.168	92.21	n.a.	MB*
Total:			185.848	269.148	100.00	0.000	

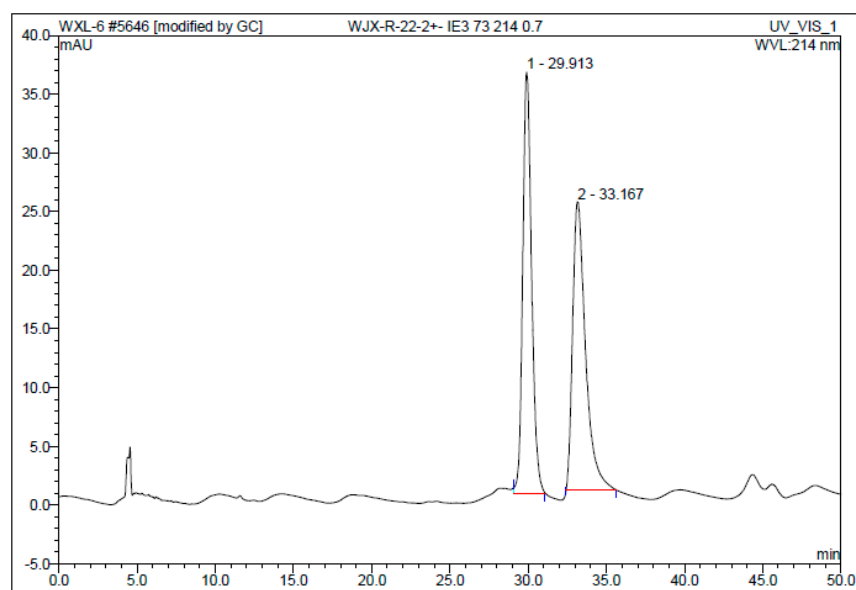
**Figure S91.** The HPLC data of **2h** in Scheme 1.



Integration Results					
No.	Retention Time min	Retention Time min	Area mAU*min	Height mAU	Relative Area %
1	32	31.793	213.273	263.063	75.54
2	34	33.780	69.072	81.512	24.46
Total:		282.346	344.576	100.00	

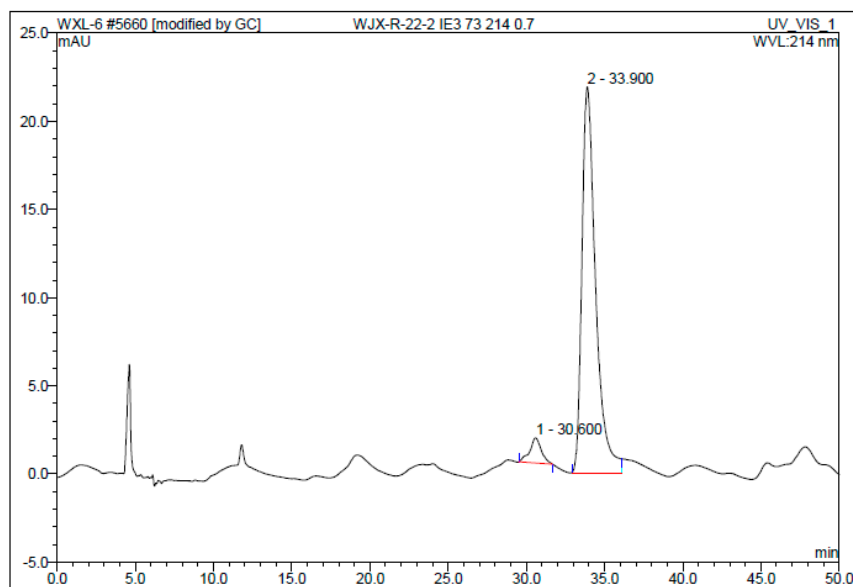
**Figure S92.** The HPLC data of **1ai** in Scheme 1.

a



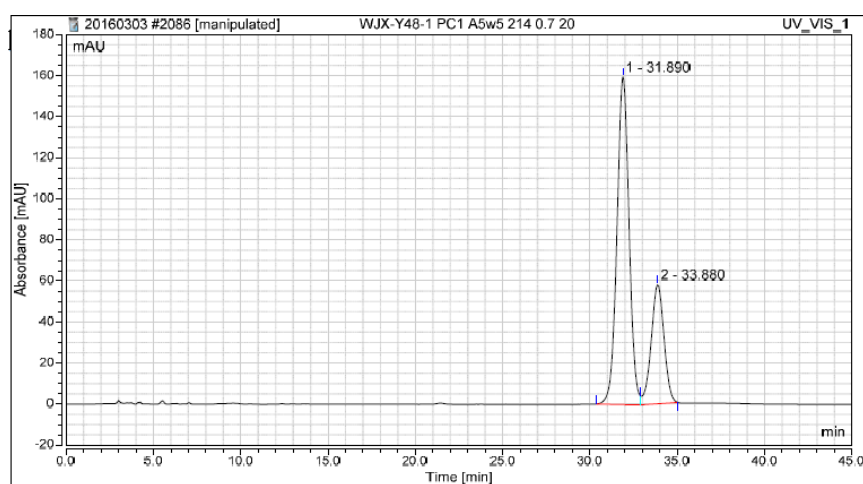
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	29.91	n.a.	35.858	23.484	50.12	n.a.	MB*
2	33.17	n.a.	24.521	23.371	49.88	n.a.	MB*
Total:			60.379	46.856	100.00	0.000	

b



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	30.60	n.a.	1.431	1.235	5.27	n.a.	BMB
2	33.90	n.a.	21.895	22.203	94.73	n.a.	BM *
Total:			23.326	23.438	100.00	0.000	

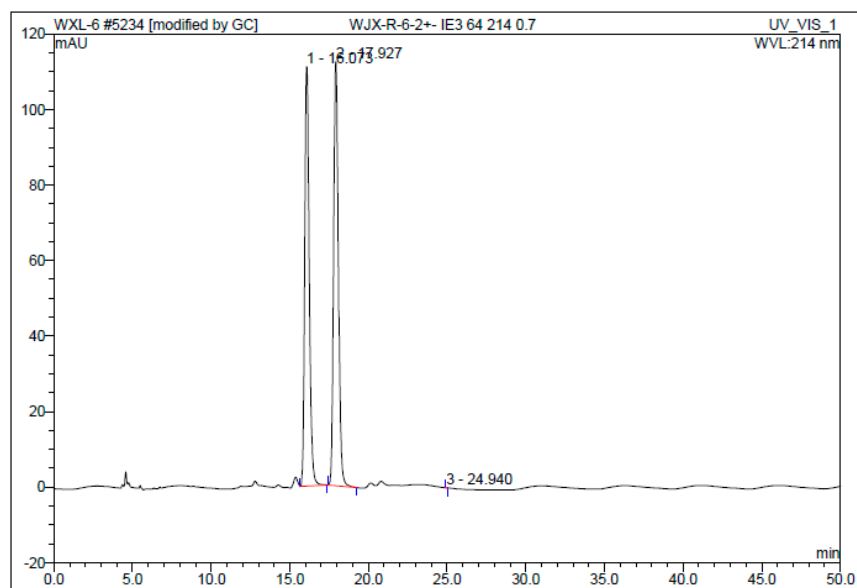
Figure S93. The HPLC data of **2i** in Scheme 1.



Integration Results					
No.	Retention Time min	Retention Time min	Area mAU*min	Height mAU	Relative Area %
1	32	31.890	127.921	159.693	72.08
2	34	33.880	49.558	58.029	27.92
Total:		177.479	217.722	100.00	

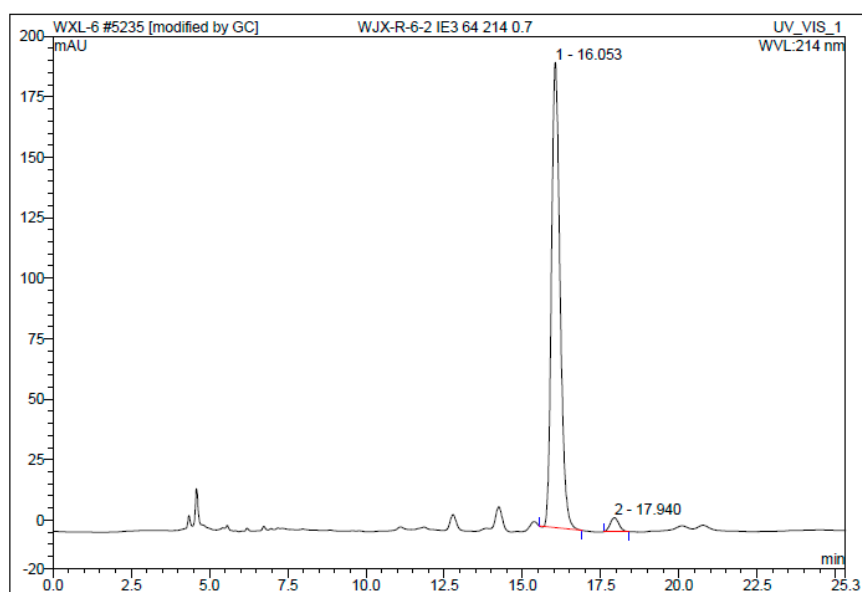
**Figure S94.** The HPLC data of **1aj** in Scheme 1.

a



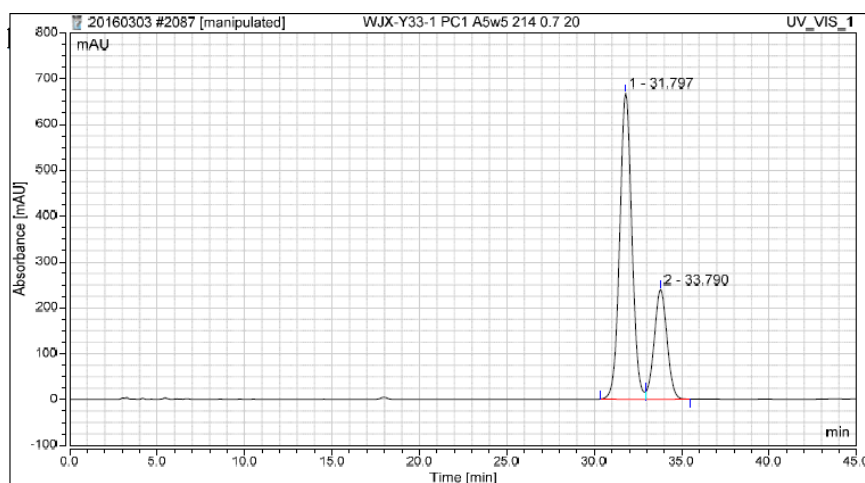
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	16.07	n.a.	111.085	36.946	48.36	n.a.	BMB*
2	17.93	n.a.	112.280	39.458	51.64	n.a.	BMB
3	24.94	n.a.	0.006	0.000	0.00	n.a.	BMB*
Total:			223.371	76.405	100.00	0.000	

b



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	16.05	n.a.	192.285	61.001	97.04	n.a.	BMB*
2	17.94	n.a.	5.746	1.859	2.96	n.a.	BMB*
Total:			198.030	62.860	100.00	0.000	

Figure S95. The HPLC data of **2j** in Scheme 1.

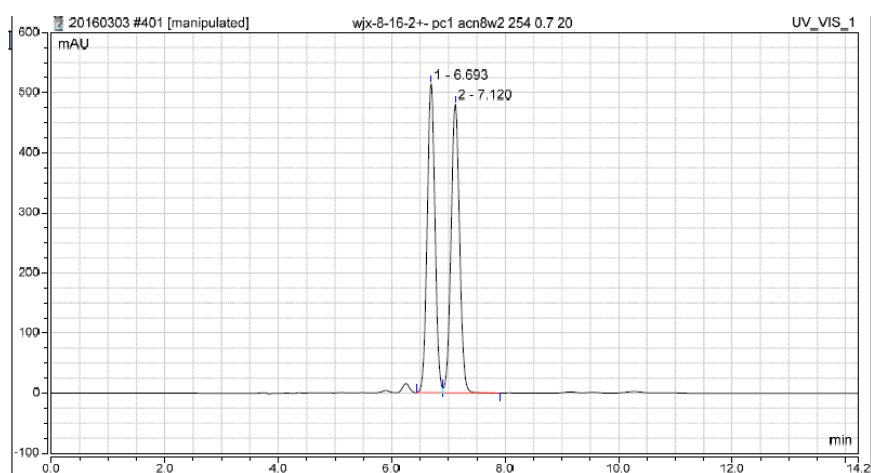


Integration Results					
No.	Retention Time min	Retention Time min	Area mAU*min	Height mAU	Relative Area %
1	32	31.797	539.825	667.940	72.66
2	34	33.790	203.168	239.790	27.34
Total:		742.993	907.730	100.00	

**Figure S96.** The HPLC data of **1ak** in Scheme 1.

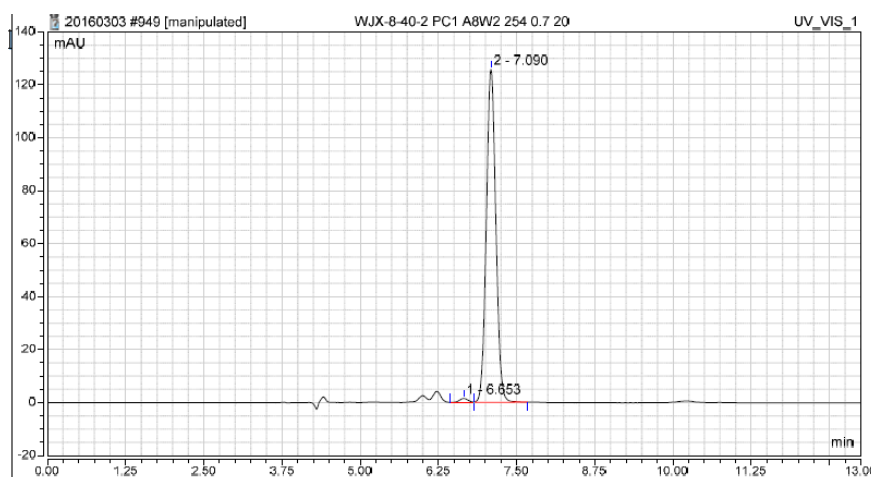


a



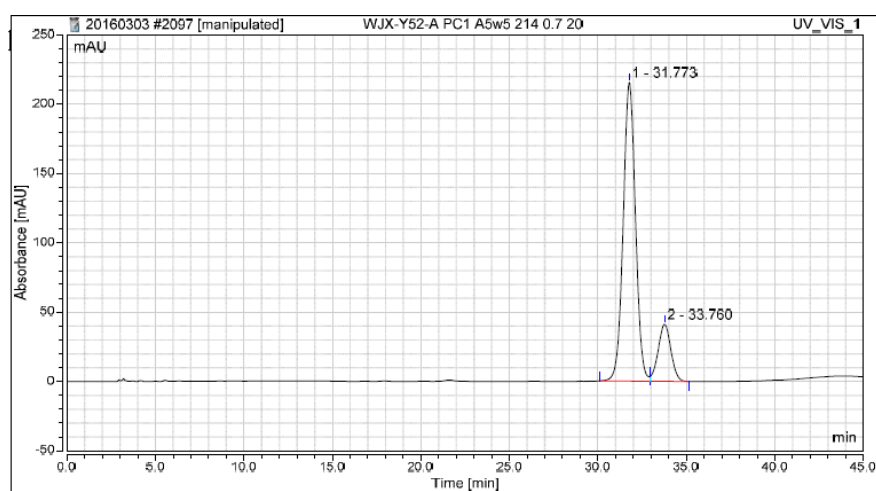
Integration Results				
No.	Retention Time min	Area mAU*min	Height mAU	Relative Area %
1	6.693	82.030	514.254	49.54
2	7.120	83.562	480.307	50.46
Total:		165.591	994.561	100.00

b



Integration Results				
No.	Retention Time min	Area mAU*min	Height mAU	Relative Area %
1	6.653	0.222	1.435	0.99
2	7.090	22.120	125.734	99.01
Total:		22.342	127.169	100.00

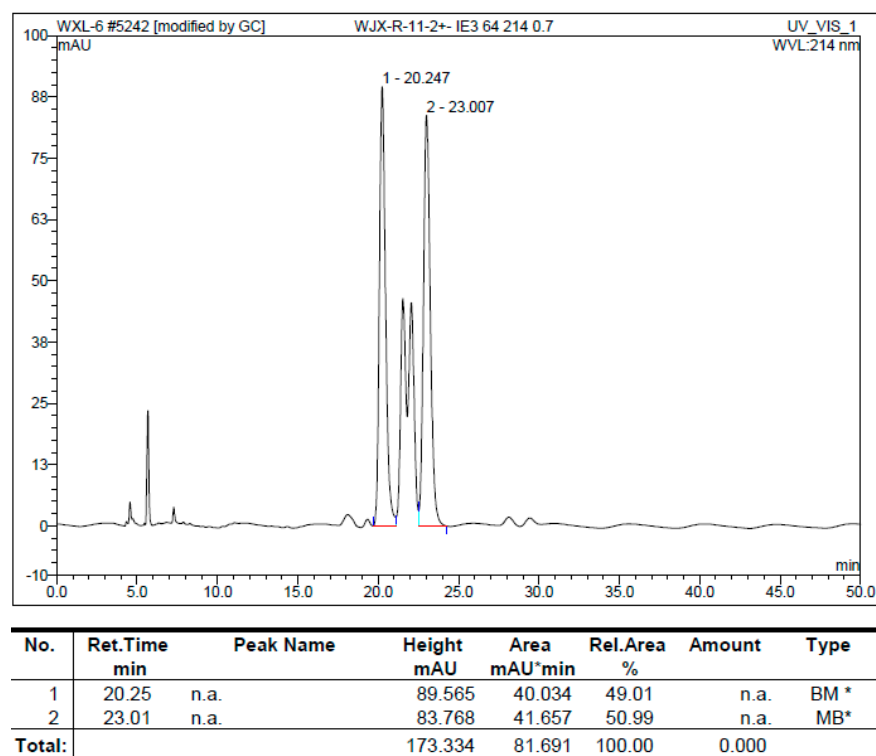
Figure S97. The HPLC data of **2k** in Scheme 1.



Integration Results					
No.	Retention Time min	Retention Time min	Area mAU*min	Height mAU	Relative Area %
1	32	31.773	172.983	215.444	83.44
2	34	33.760	34.340	41.234	16.56
Total:		207.323	256.678	100.00	

**Figure S98.** The HPLC data of **1aI** in Scheme 1.

a



b

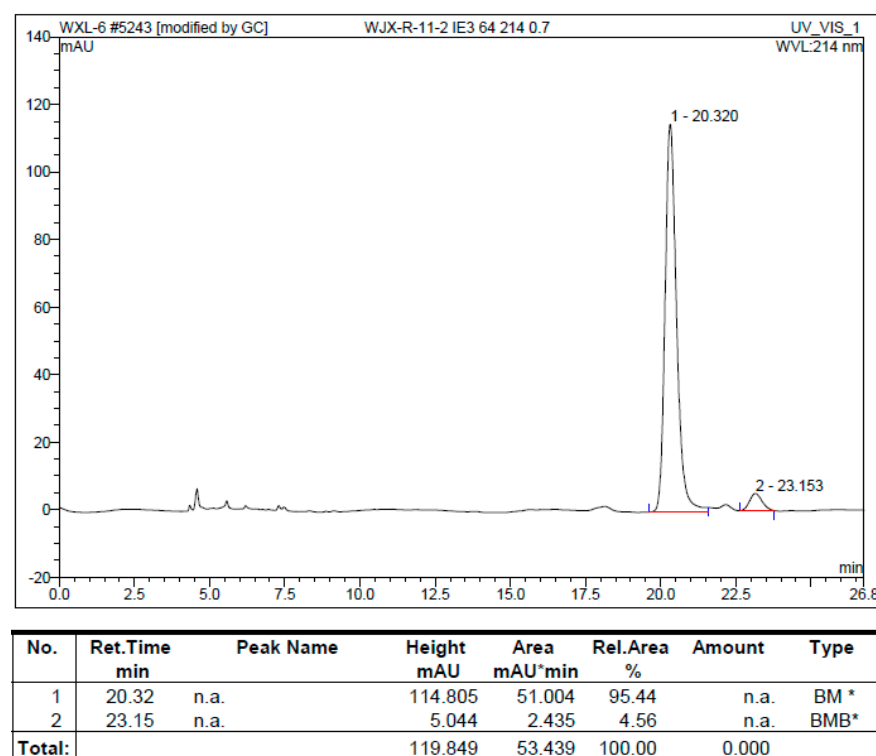
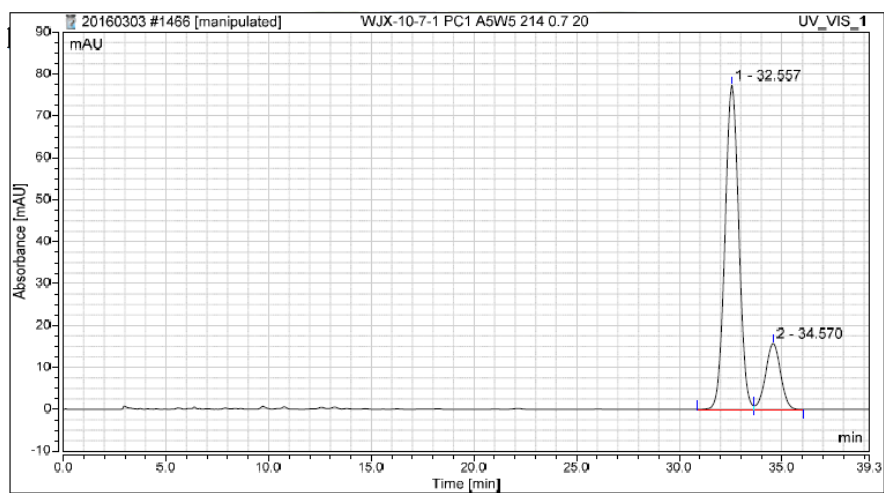


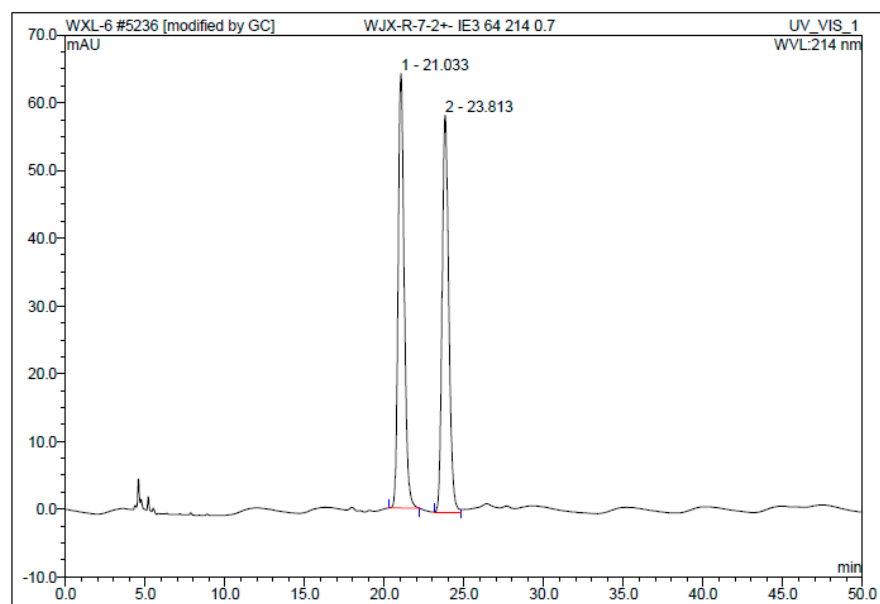
Figure S99. The HPLC data of **2l** in Scheme 1.



Integration Results					
No.	Retention Time min	Retention Time min	Area mAU*min	Height mAU	Relative Area %
1	33	32.557	60.389	77.338	81.94
2	35	34.570	13.309	15.781	18.06
Total:		73.699	93.119	100.00	

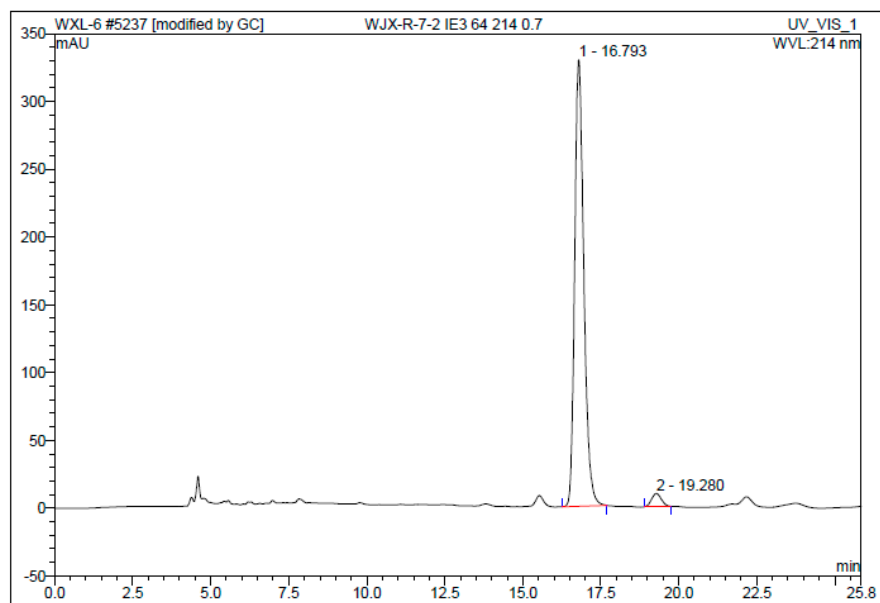
**Figure S100.** The HPLC data of **1am** in Scheme 1.

a



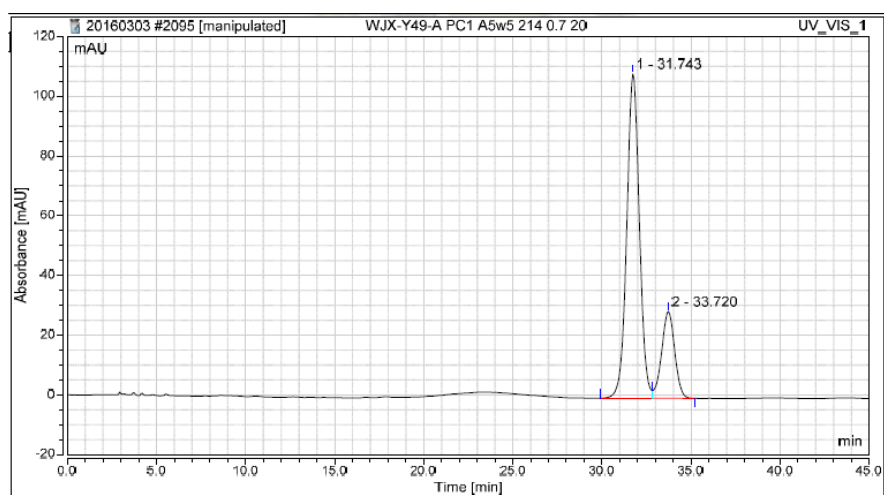
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	21.03	n.a.	64.158	28.490	50.06	n.a.	BMB*
2	23.81	n.a.	58.625	28.423	49.94	n.a.	BM *
Total:			122.783	56.912	100.00	0.000	

b



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	16.79	n.a.	329.385	111.937	97.03	n.a.	BMB*
2	19.28	n.a.	9.564	3.429	2.97	n.a.	BMB*
Total:			338.949	115.366	100.00	0.000	

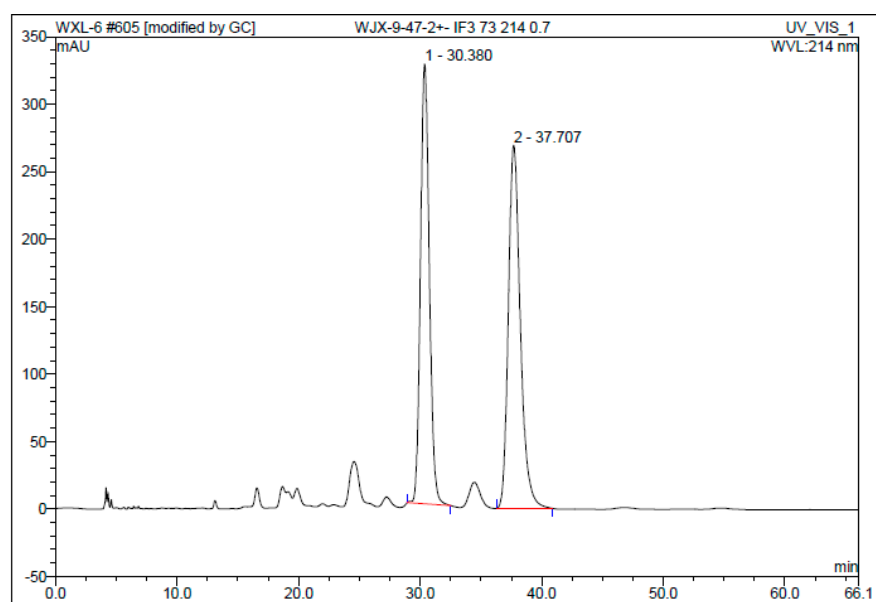
**Figure S101.** The HPLC data of **2m** in Scheme 1.



Integration Results					
No.	Retention Time min	Retention Time min	Area mAU*min	Height mAU	Relative Area %
1	32	31.743	88.880	108.647	78.27
2	34	33.720	24.674	29.095	21.73
Total:		113.554	137.742	100.00	

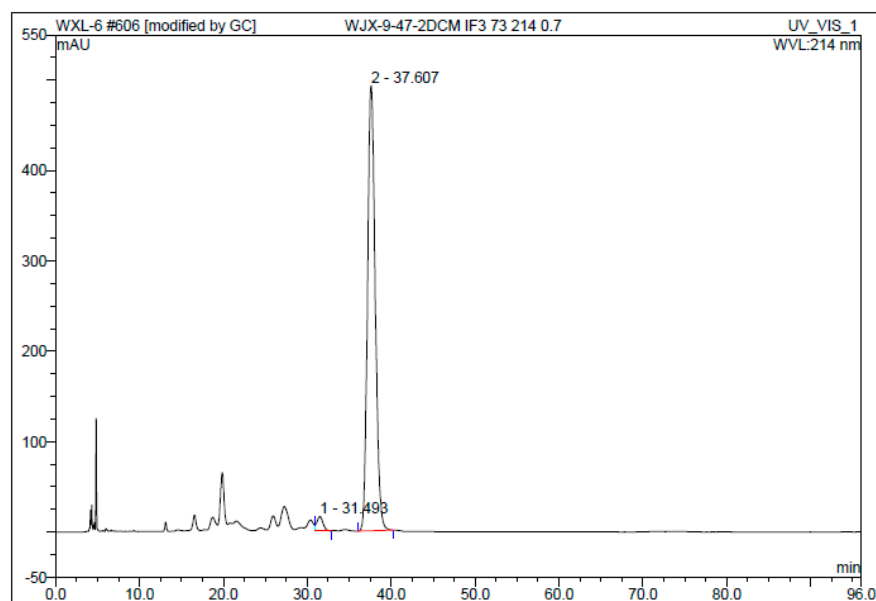
**Figure S102.** The HPLC data of **1am** in Scheme 1.

a



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	30.38	n.a.	325.972	275.270	47.24	n.a.	BMB*
2	37.71	n.a.	269.212	307.494	52.76	n.a.	BMB*
Total:			595.184	582.764	100.00	0.000	

b

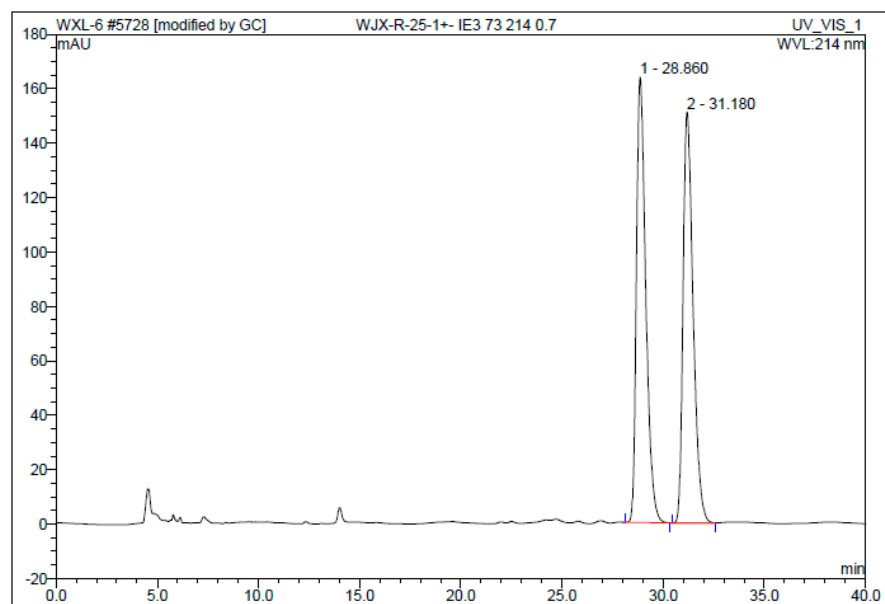


No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	31.49	n.a.	15.529	13.612	2.53	n.a.	MB*
2	37.61	n.a.	492.445	524.468	97.47	n.a.	BMB*
Total:			507.974	538.081	100.00	0.000	

Figure S103. The HPLC data of **2n** in Scheme 1.

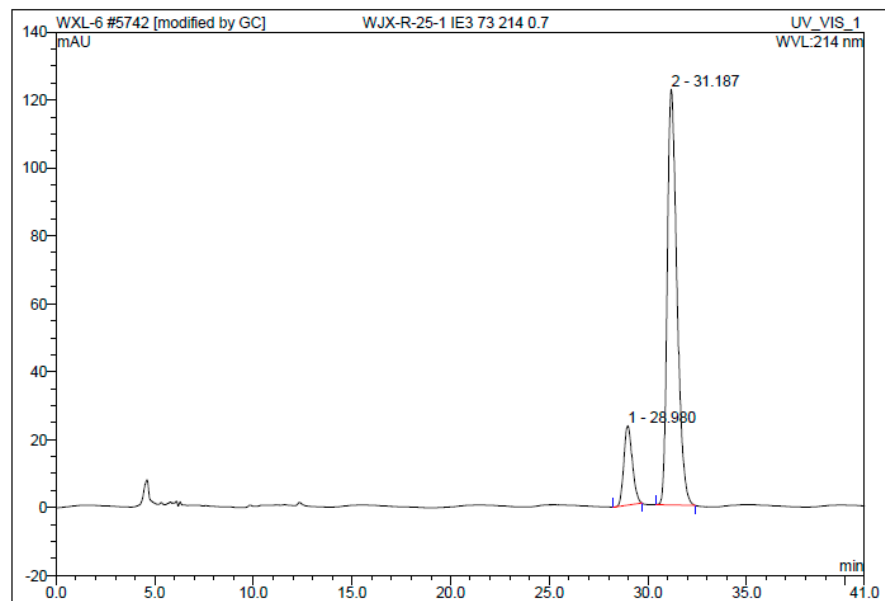
6. The HPLC Data of **1o-x** and **2o-x** in Scheme 2.

a



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	28.86	n.a.	163.779	87.964	50.29	n.a.	BMB
2	31.18	n.a.	151.111	86.960	49.71	n.a.	BMB
Total:			314.890	174.925	100.00	0.000	

b

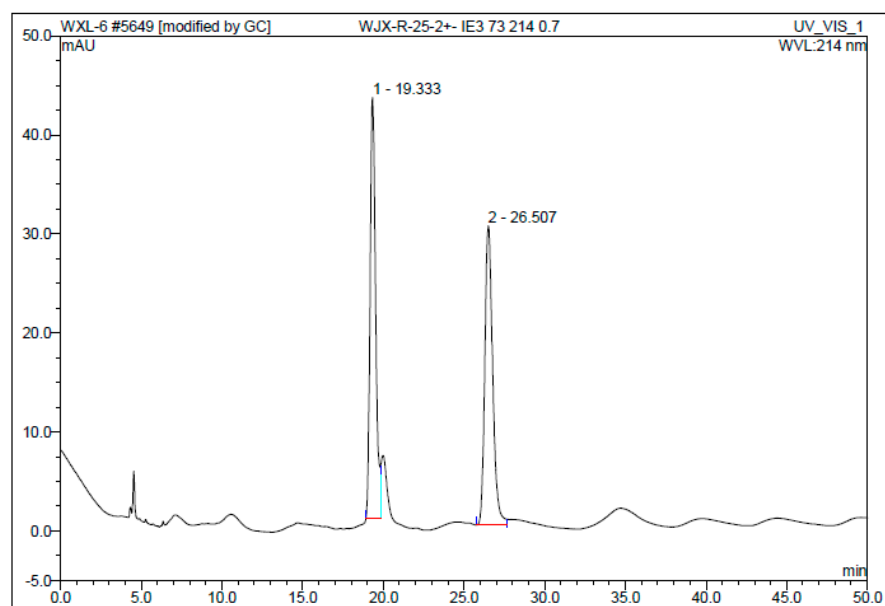


No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	28.98	n.a.	23.381	11.660	14.31	n.a.	BMB*
2	31.19	n.a.	122.344	69.838	85.69	n.a.	BMB*
Total:			145.725	81.498	100.00	0.000	

Figure S104. The HPLC data of **1o** in Scheme 2.

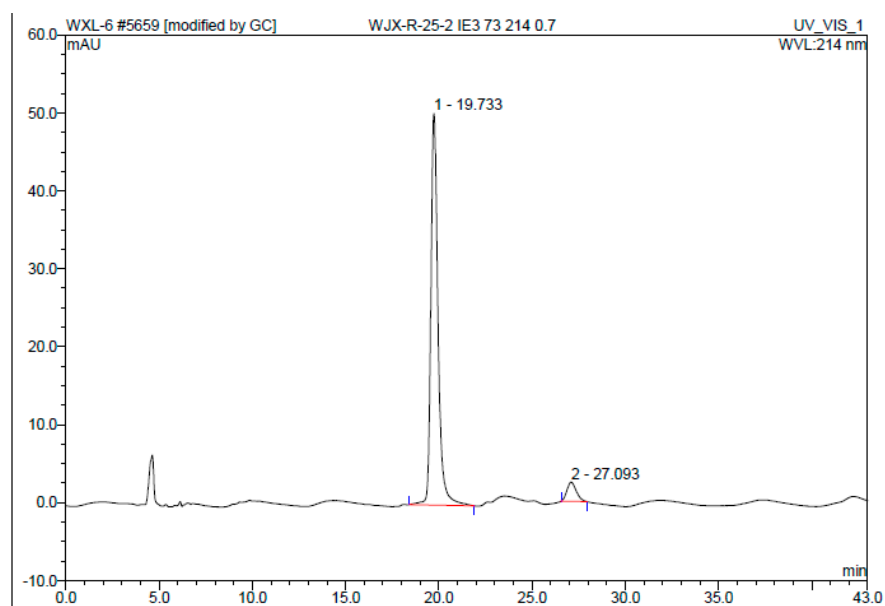


a



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	19.33	n.a.	42.546	16.795	49.61	n.a.	BM *
2	26.51	n.a.	30.215	17.061	50.39	n.a.	BM *
<b>Total:</b>			72.761	33.855	100.00	0.000	

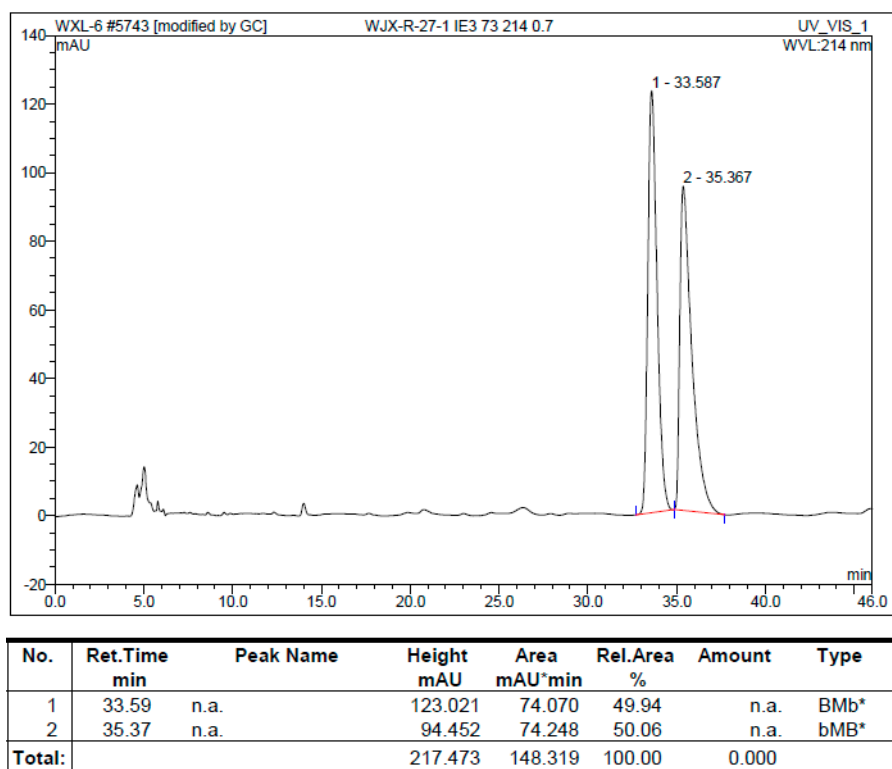
b



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	19.73	n.a.	50.233	22.331	93.90	n.a.	BMB*
2	27.09	n.a.	2.477	1.450	6.10	n.a.	BMB*
<b>Total:</b>			52.710	23.781	100.00	0.000	

Figure S105. The HPLC data of **2o** in Scheme 2.

a



b

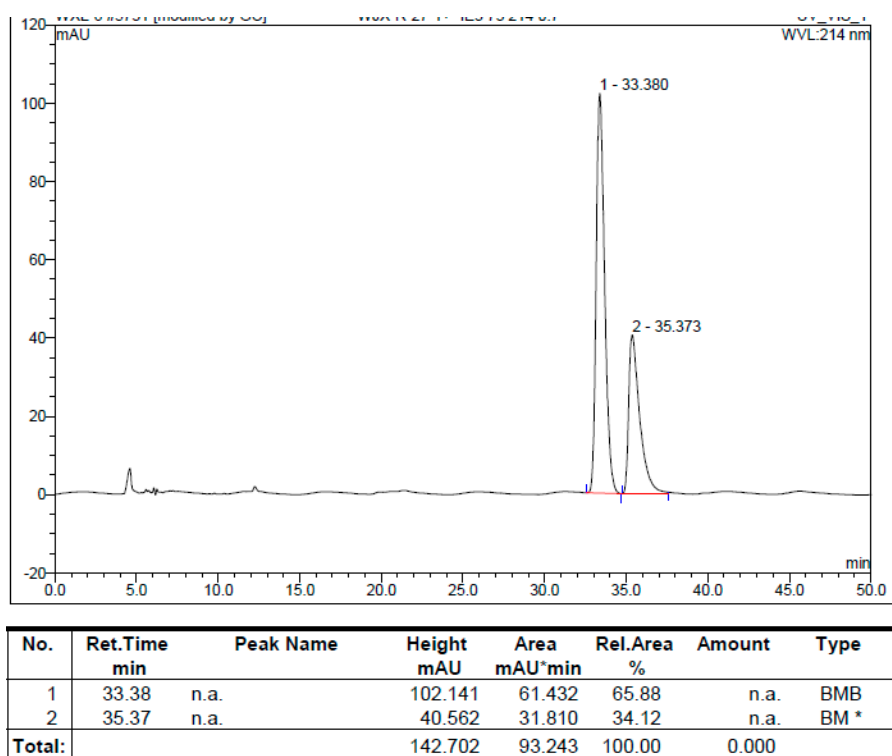
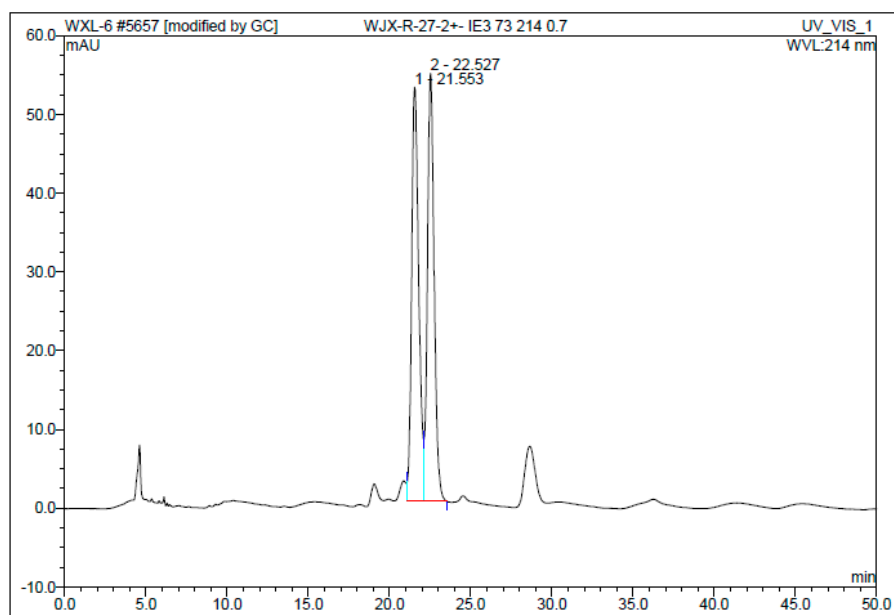


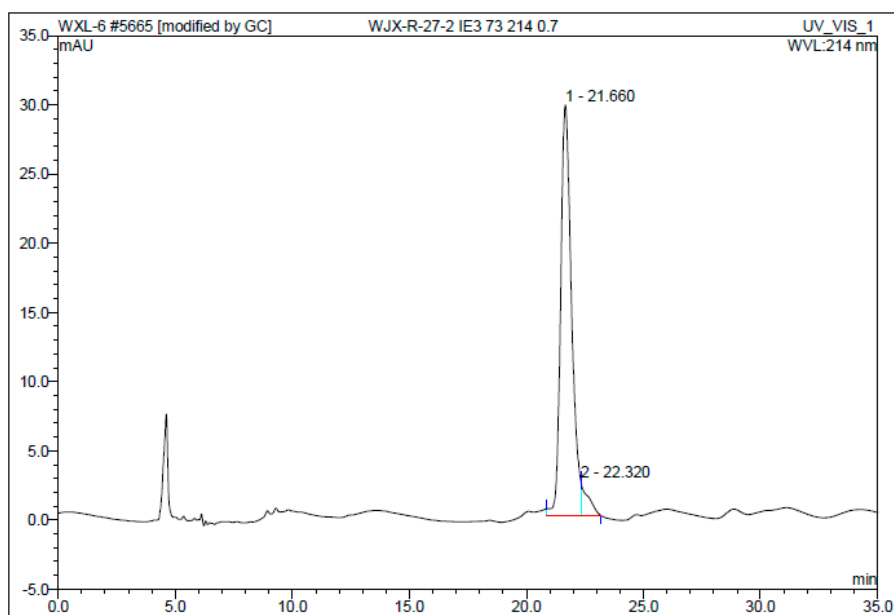
Figure S106. The HPLC data of **1p** in Scheme 2.

a



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	21.55	n.a.	52.571	26.529	50.32	n.a.	M *
2	22.53	n.a.	54.338	26.193	49.68	n.a.	MB*
Total:			106.909	52.722	100.00	0.000	

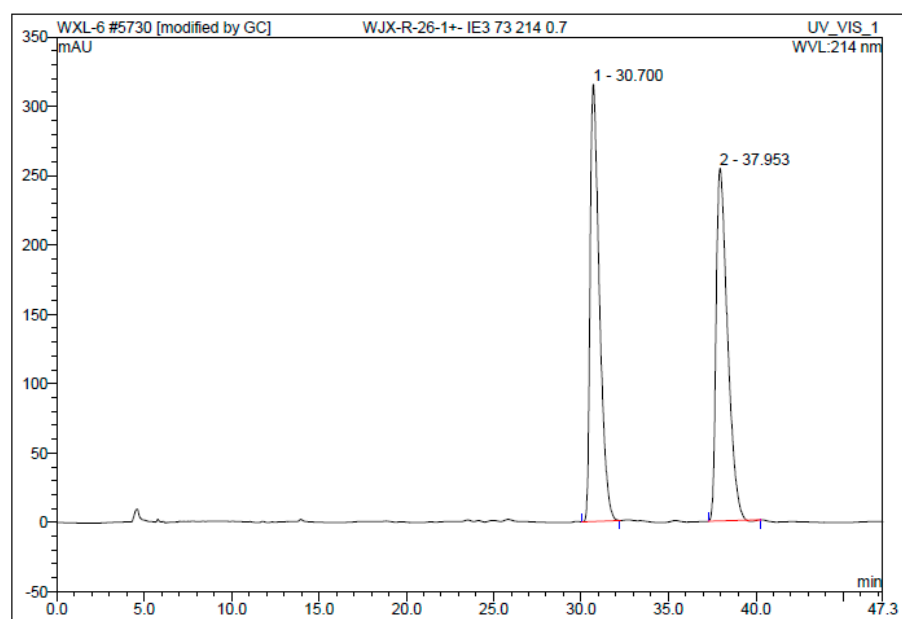
b



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	21.66	n.a.	29.663	15.813	94.76	n.a.	M *
2	22.32	n.a.	2.515	0.874	5.24	n.a.	MB*
Total:			32.178	16.687	100.00	0.000	

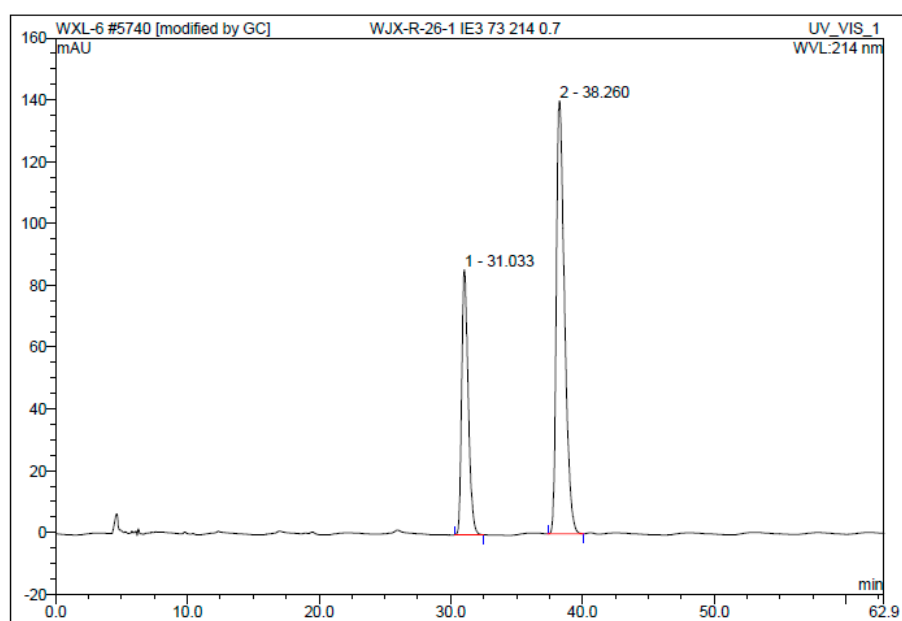
Figure S107. The HPLC data of **2p** in Scheme 2.

a



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	30.70	n.a.	315.435	194.329	50.23	n.a.	BMB*
2	37.95	n.a.	254.445	192.566	49.77	n.a.	BMB*
<b>Total:</b>			569.880	386.894	100.00	0.000	

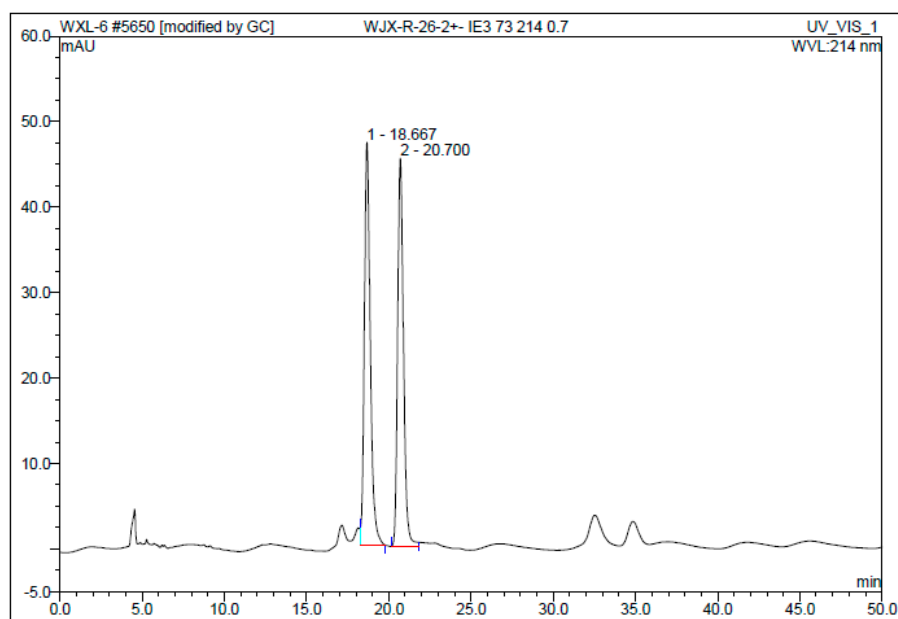
b



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	31.03	n.a.	85.813	49.050	32.58	n.a.	BMB
2	38.26	n.a.	140.193	101.491	67.42	n.a.	BMB
<b>Total:</b>			226.007	150.540	100.00	0.000	

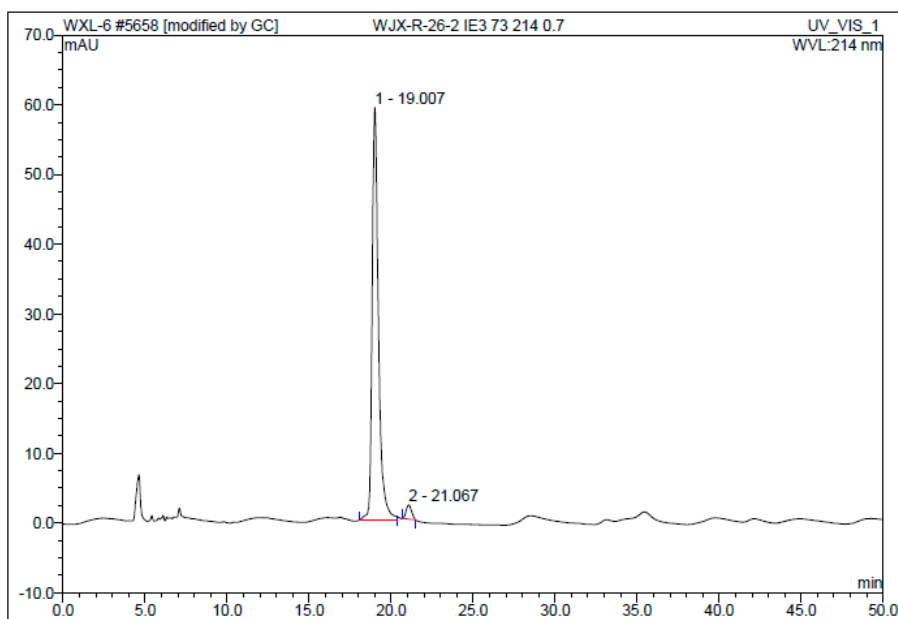
Figure S108. The HPLC data of **1q** in Scheme 2.

a



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	18.67	n.a.	47.138	19.796	51.27	n.a.	MB*
2	20.70	n.a.	45.426	18.812	48.73	n.a.	BM *
Total:			92.564	38.608	100.00	0.000	

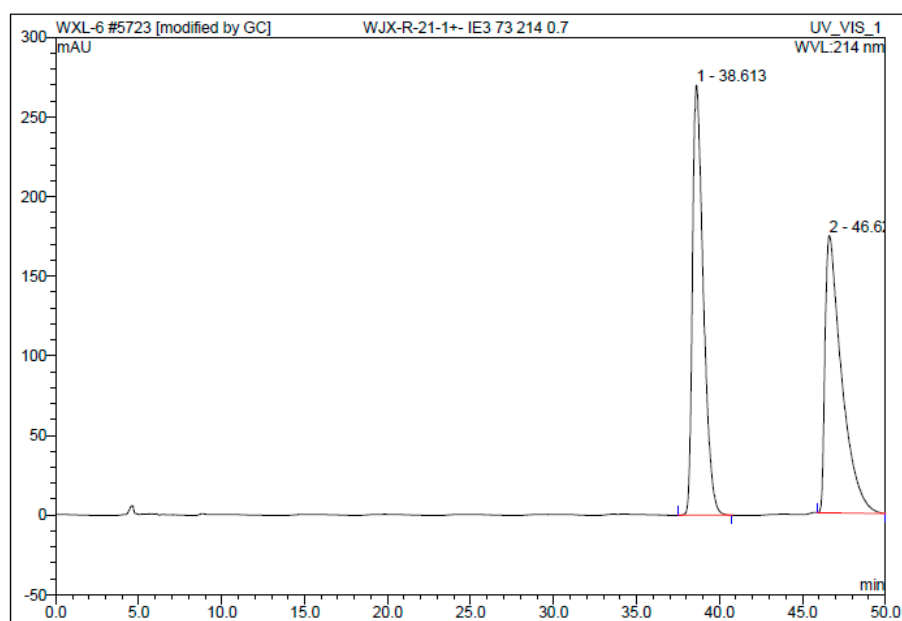
b



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	19.01	n.a.	59.220	26.439	97.16	n.a.	BM *
2	21.07	n.a.	2.037	0.773	2.84	n.a.	BMB*
Total:			61.257	27.212	100.00	0.000	

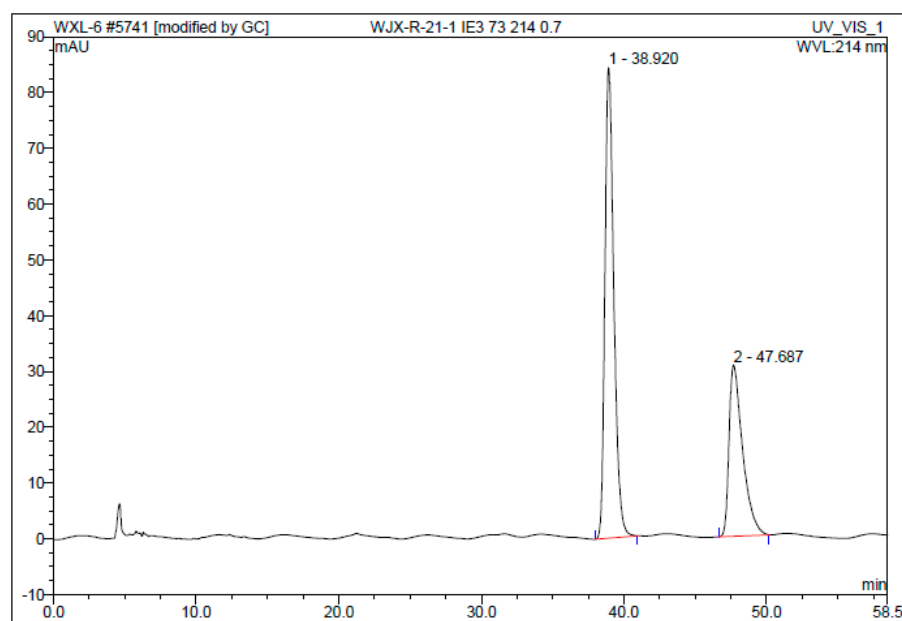
Figure S109. The HPLC data of **2q** in Scheme 2.

a



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	38.61	n.a.	270.072	206.010	50.44	n.a.	BMB
2	46.63	n.a.	173.979	202.446	49.56	n.a.	BMB
Total:			444.052	408.456	100.00	0.000	

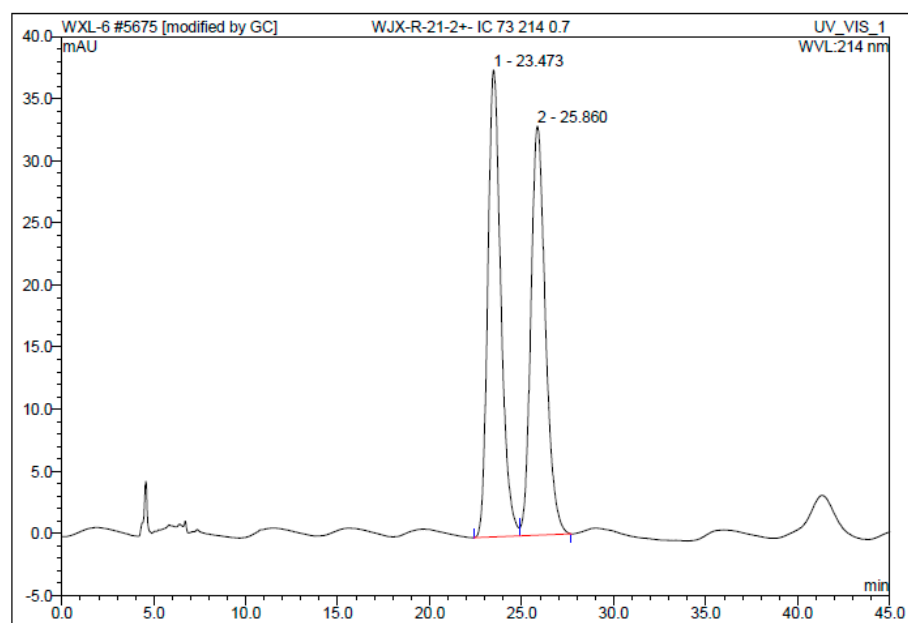
b



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	38.92	n.a.	84.369	61.380	64.47	n.a.	BMB
2	47.69	n.a.	30.701	33.828	35.53	n.a.	BMB
Total:			115.070	95.208	100.00	0.000	

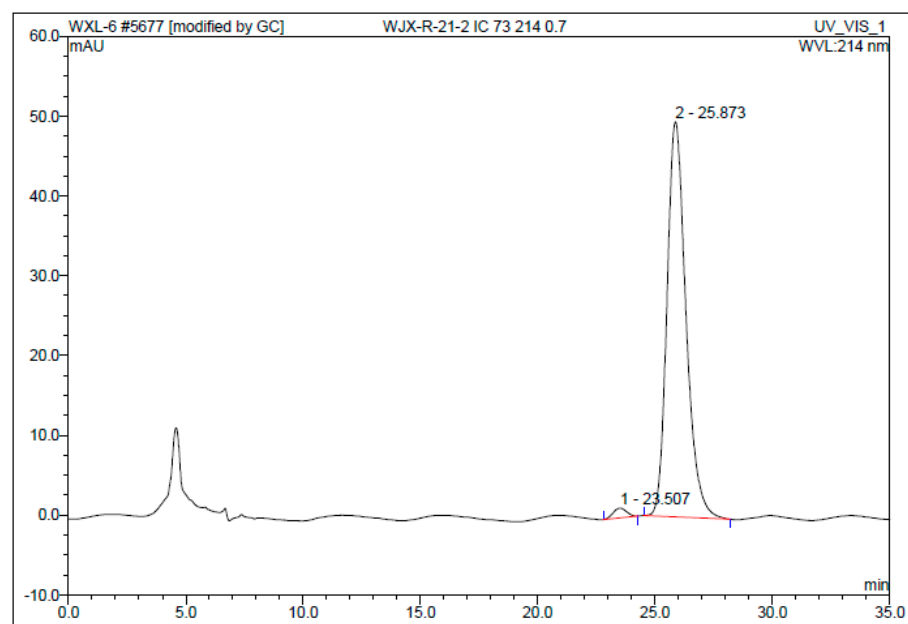
Figure S110. The HPLC data of **1r** in Scheme 2.

a



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	23.47	n.a.	37.587	31.001	50.58	n.a.	BM
2	25.86	n.a.	32.936	30.292	49.42	n.a.	MB
Total:			70.523	61.294	100.00	0.000	

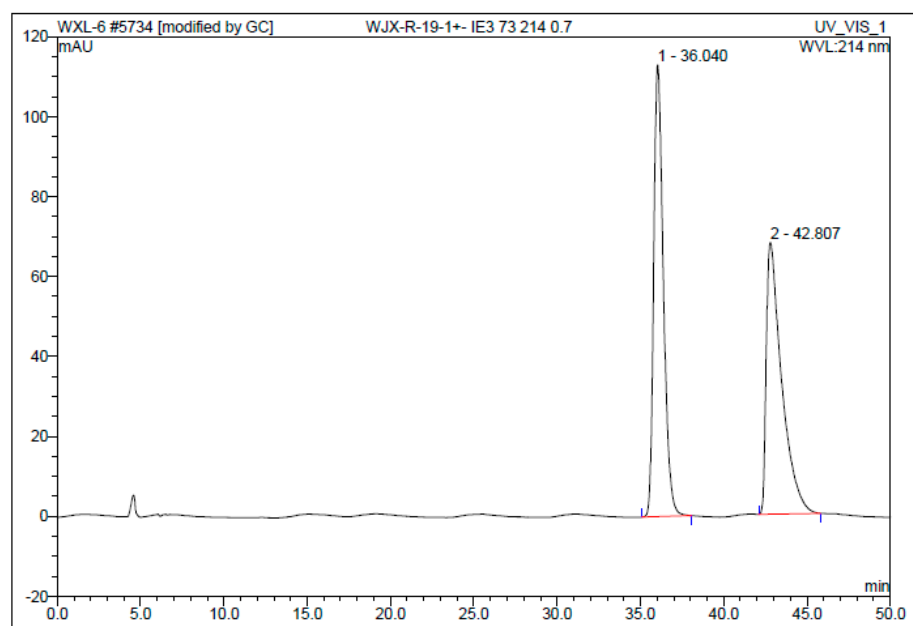
b



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	23.51	n.a.	1.225	0.802	1.70	n.a.	BMB
2	25.87	n.a.	49.517	46.435	98.30	n.a.	BMB
Total:			50.742	47.238	100.00	0.000	

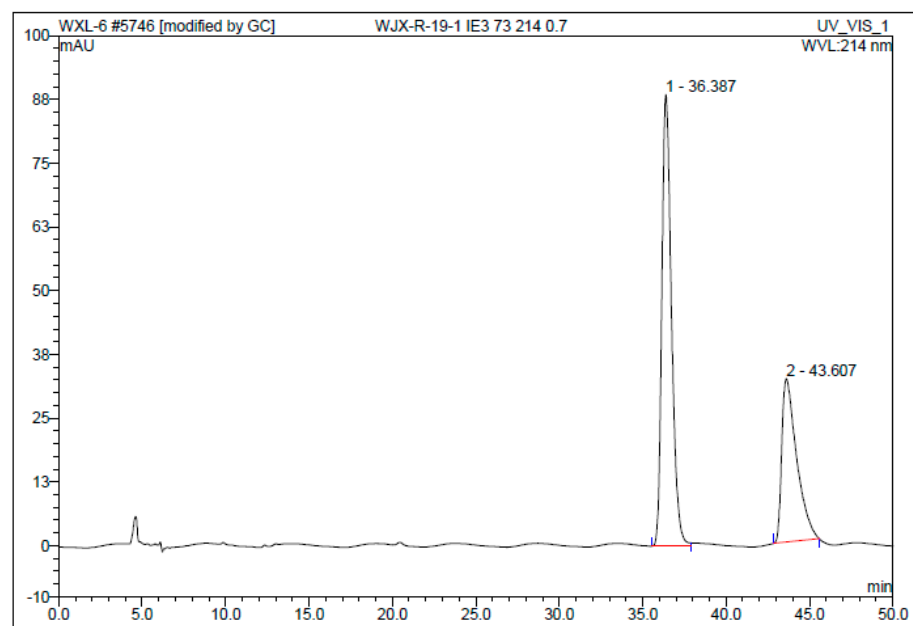
Figure S111. The HPLC data of **2r** in Scheme 2.

a



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	36.04	n.a.	113.024	76.115	51.10	n.a.	BMB
2	42.81	n.a.	67.961	72.844	48.90	n.a.	BMB
Total:			180.985	148.959	100.00	0.000	

b

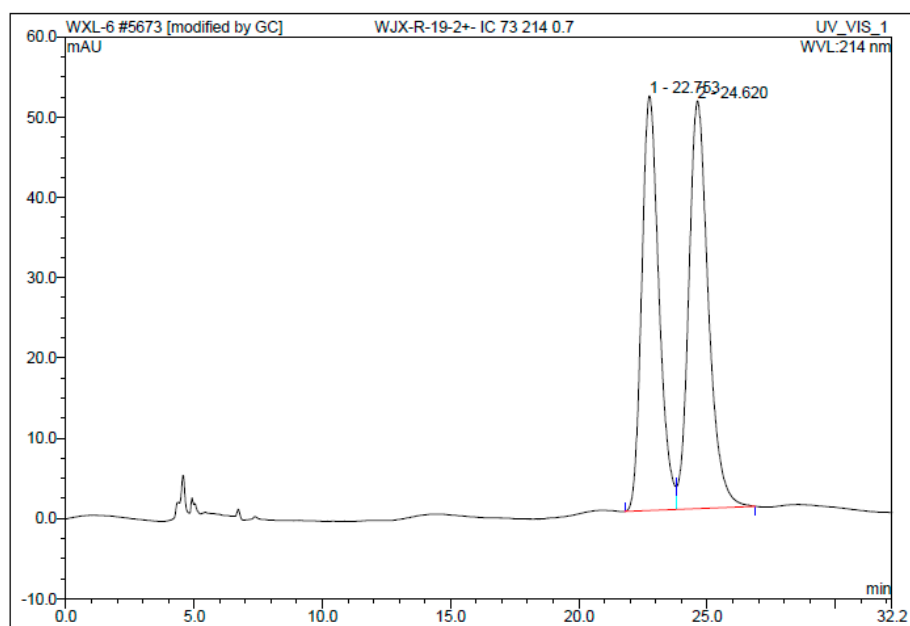


No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	36.39	n.a.	88.542	59.336	64.22	n.a.	BM *
2	43.61	n.a.	32.028	33.058	35.78	n.a.	BMB*
Total:			120.570	92.394	100.00	0.000	

Figure S112. The HPLC data of **1s** in Scheme 2.

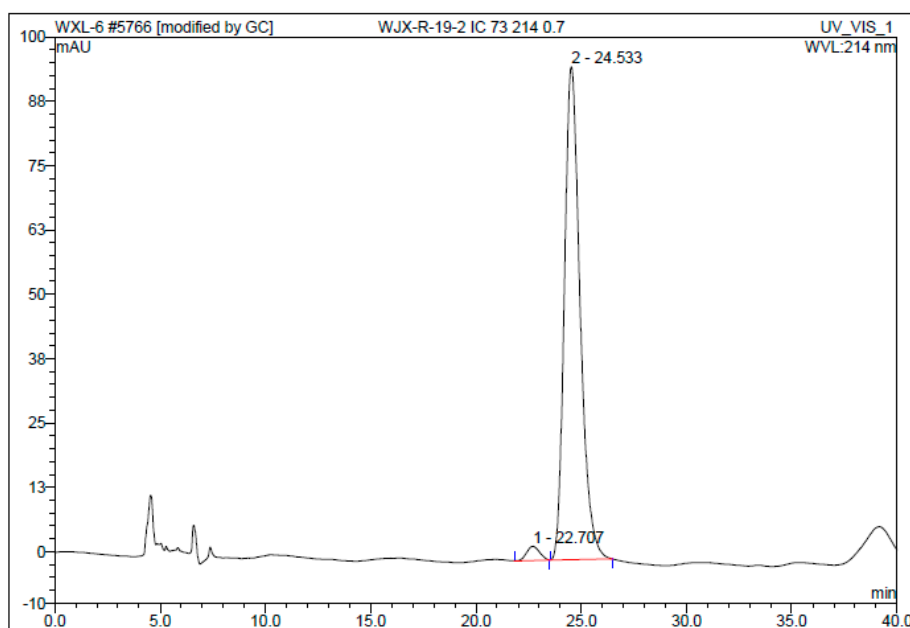


a



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	22.75	n.a.	51.685	40.111	47.10	n.a.	BM
2	24.62	n.a.	50.813	45.048	52.90	n.a.	MB
Total:			102.498	85.159	100.00	0.000	

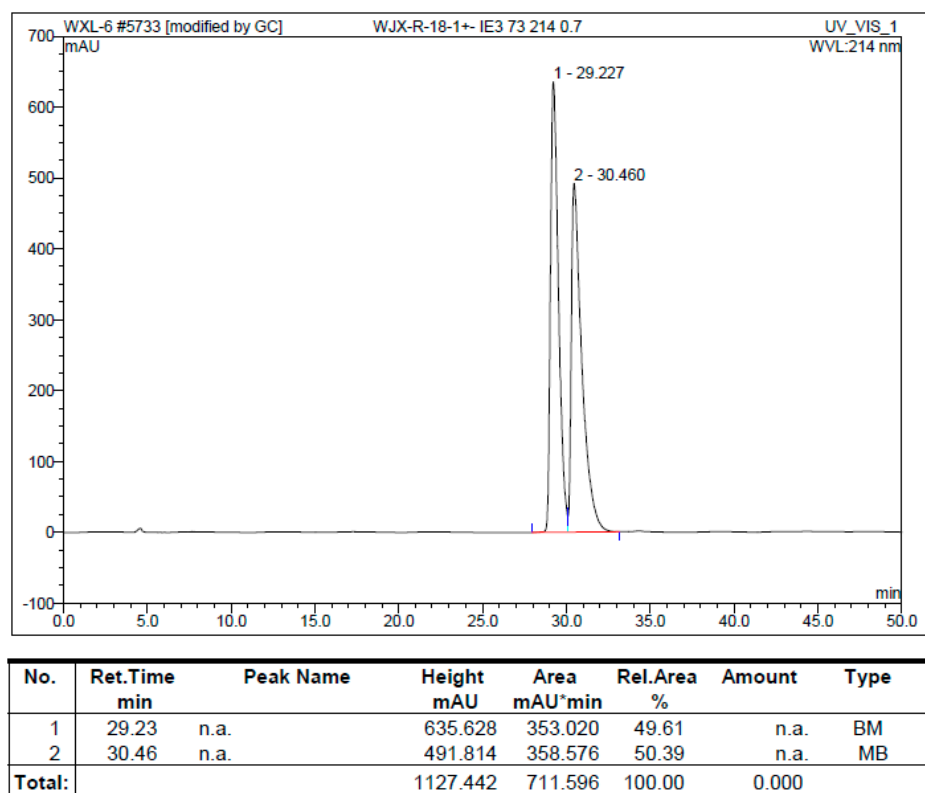
b



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	22.71	n.a.	2.760	1.969	2.33	n.a.	BMB*
2	24.53	n.a.	95.755	82.712	97.67	n.a.	BMB*
Total:			98.514	84.680	100.00	0.000	

Figure S113. The HPLC data of **2s** in Scheme 2.

a



b

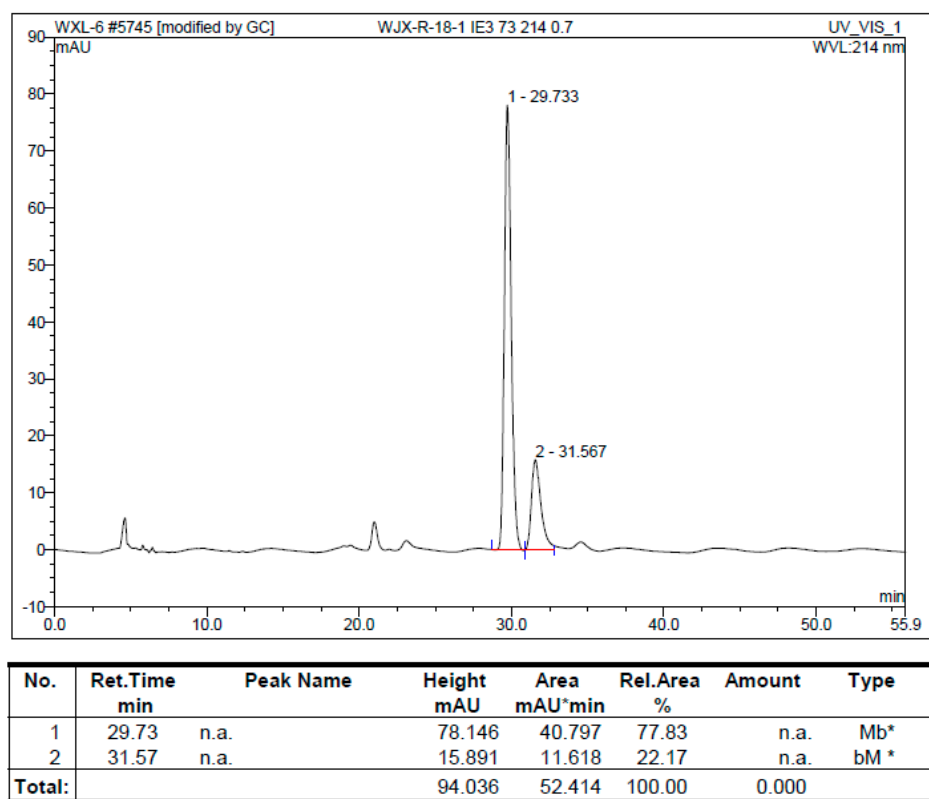
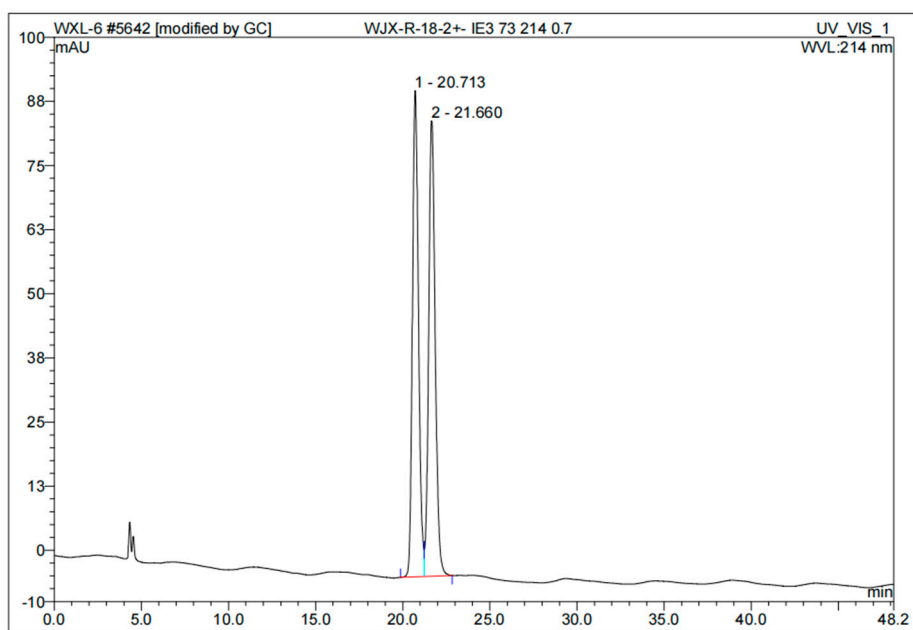


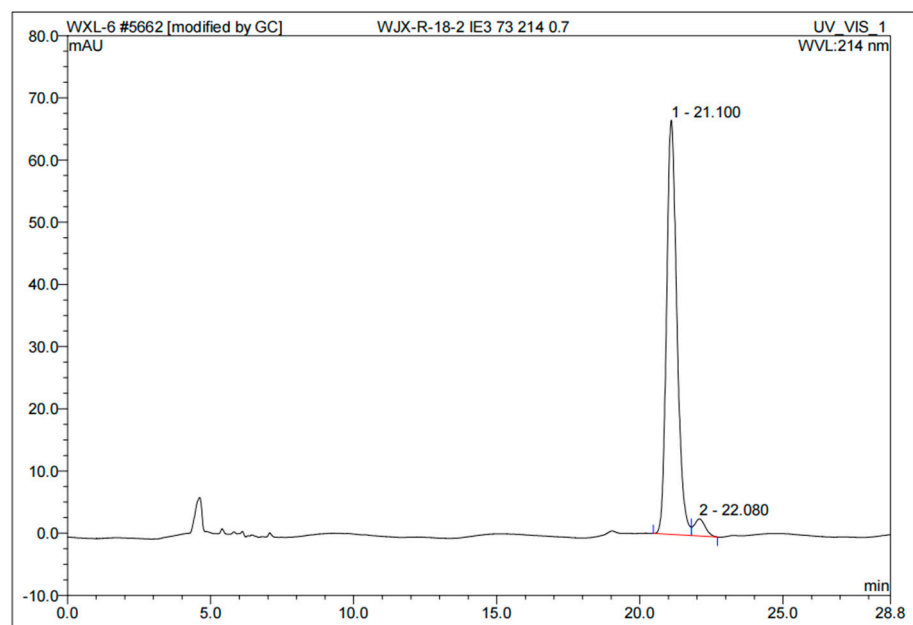
Figure S114. The HPLC data of **1t** in Scheme 2.

a



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	20.71	n.a.	94.790	38.067	49.71	n.a.	BM
2	21.66	n.a.	88.790	38.510	50.29	n.a.	MB
Total:			183.580	76.576	100.00	0.000	

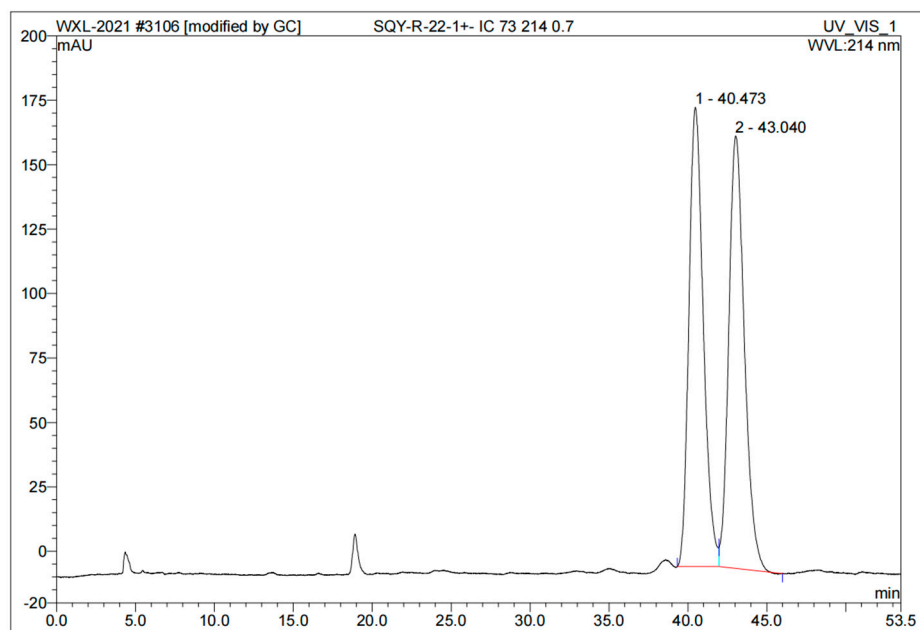
b



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	21.10	n.a.	66.633	27.982	95.77	n.a.	BM
2	22.08	n.a.	2.746	1.236	4.23	n.a.	MB
Total:			69.379	29.218	100.00	0.000	

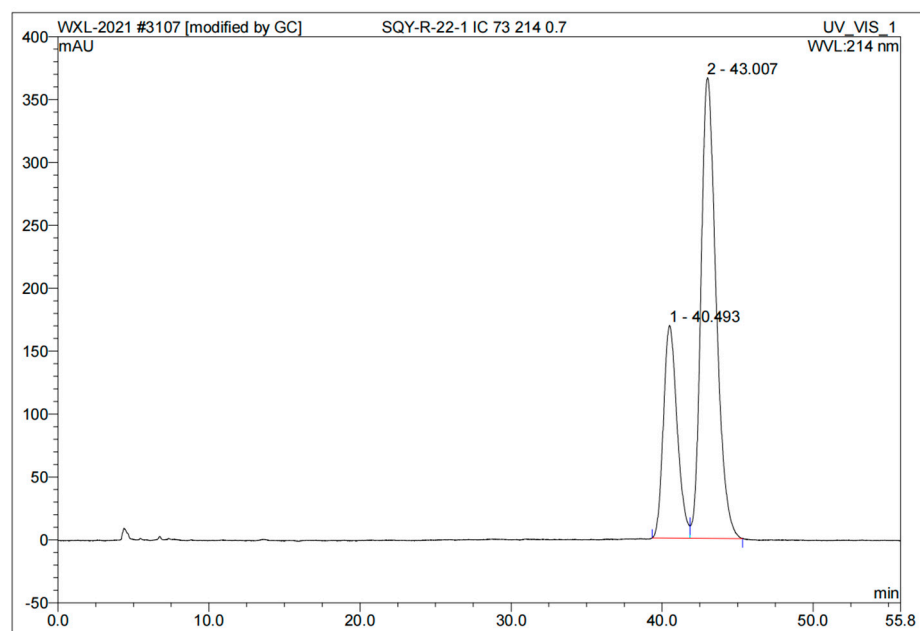
Figure S115. The HPLC data of **2t** in Scheme 2.

a



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	40.47	n.a.	178.262	188.165	49.45	n.a.	BM *
2	43.04	n.a.	167.891	192.340	50.55	n.a.	MB*
Total:			346.153	380.505	100.00	0.000	

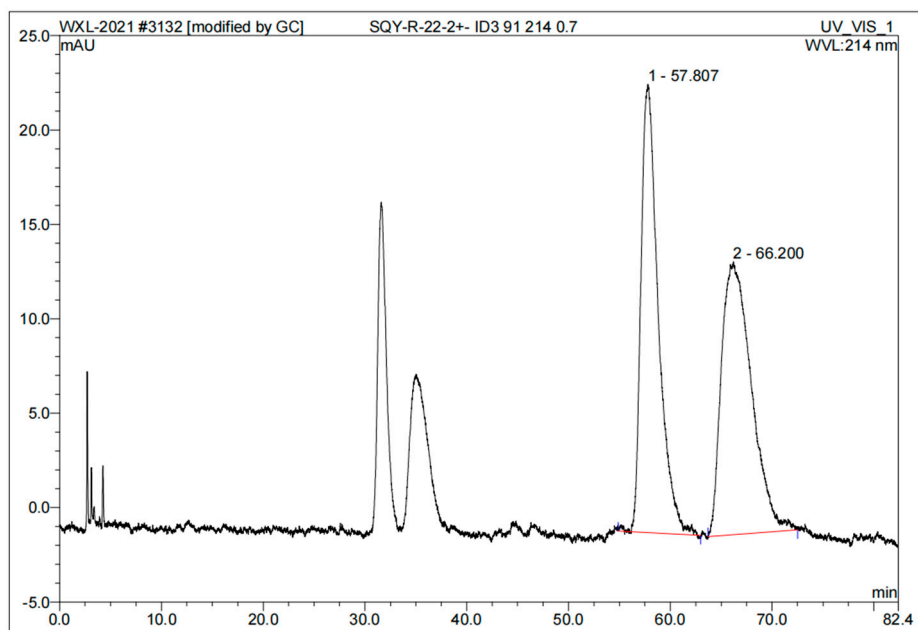
b



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	40.49	n.a.	169.153	177.644	29.33	n.a.	BM
2	43.01	n.a.	366.302	427.950	70.67	n.a.	MB
Total:			535.455	605.594	100.00	0.000	

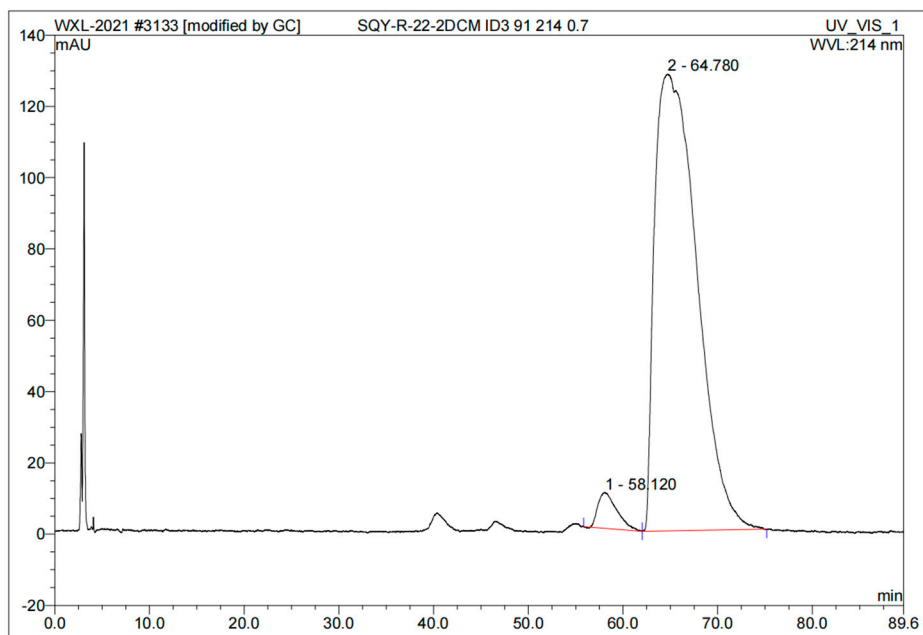
Figure S116. The HPLC data of **1u** in Scheme 2.

a



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	57.81	n.a.	23.736	46.860	48.73	n.a.	BMB*
2	66.20	n.a.	14.469	49.299	51.27	n.a.	BMB*
Total:			38.205	96.160	100.00	0.000	

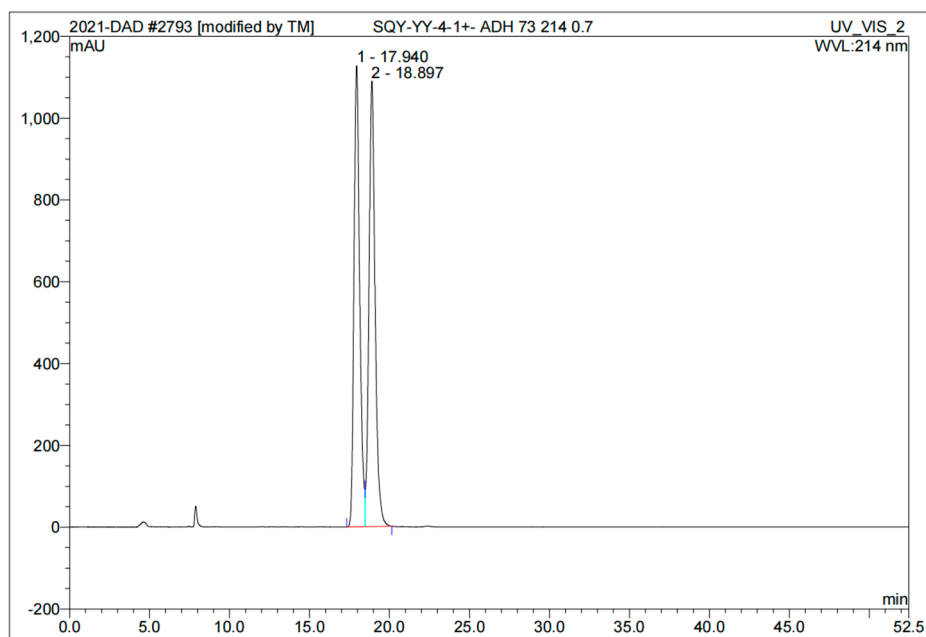
b



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	58.12	n.a.	10.069	23.204	3.39	n.a.	BMB*
2	64.78	n.a.	128.193	661.629	96.61	n.a.	bMB*
Total:			138.262	684.833	100.00	0.000	

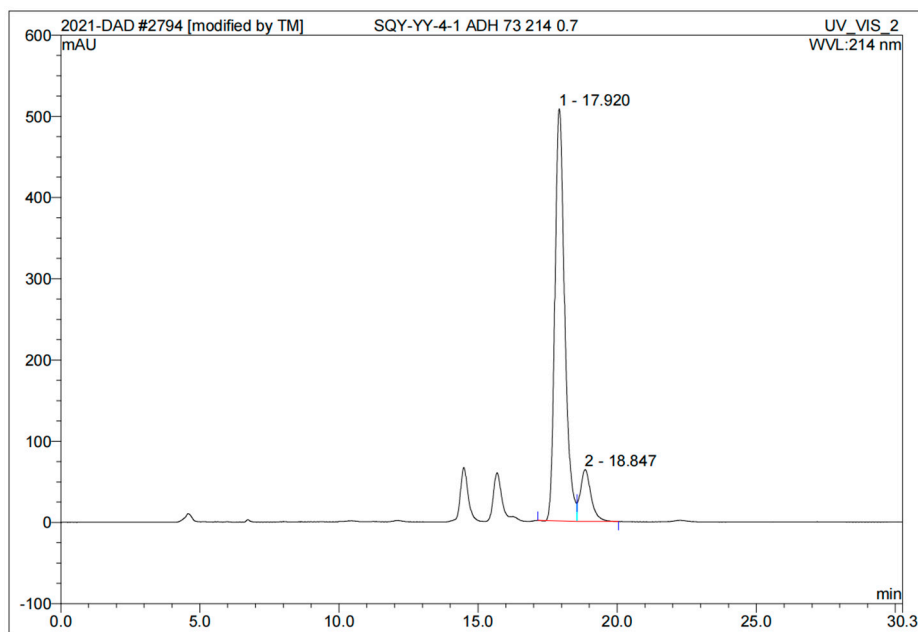
Figure S117. The HPLC data of **2u** in Scheme 2.

a



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	17.94	n.a.	1127.317	466.937	48.98	n.a.	BM
2	18.90	n.a.	1089.283	486.368	51.02	n.a.	MB
Total:			2216.600	953.304	100.00	0.000	

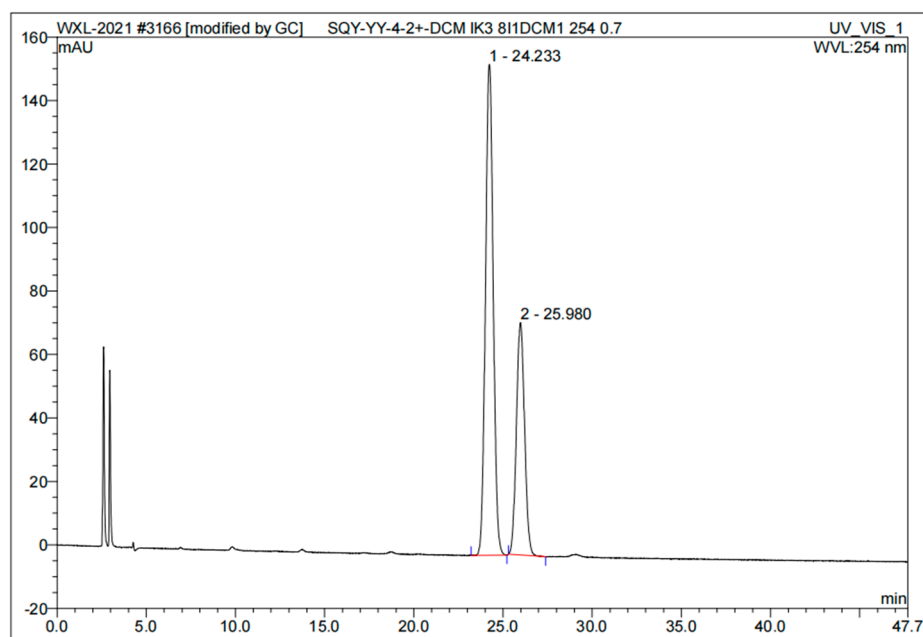
b



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	17.92	n.a.	507.757	207.452	87.80	n.a.	BM *
2	18.85	n.a.	64.114	28.813	12.20	n.a.	MB*
Total:			571.871	236.265	100.00	0.000	

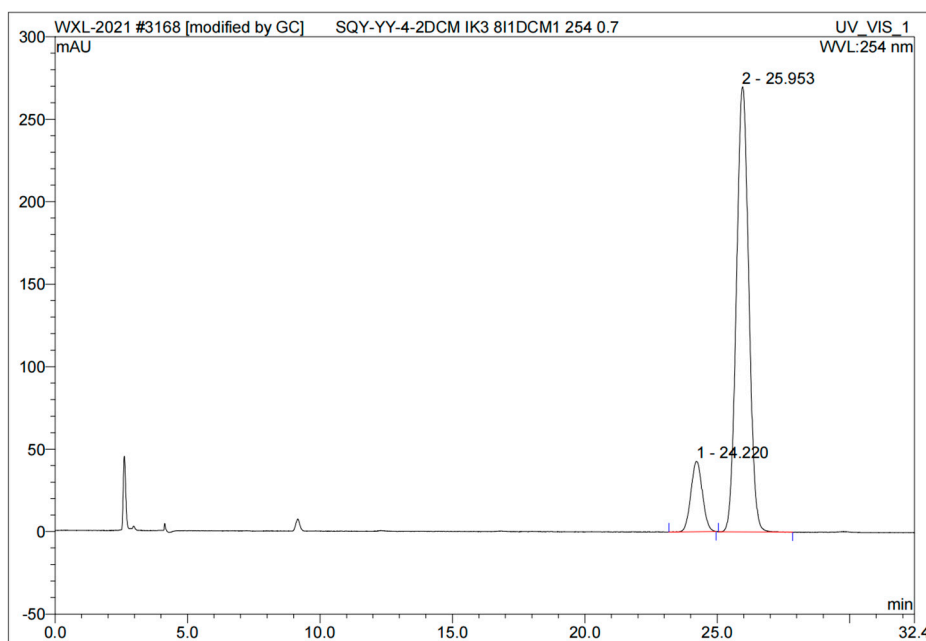
Figure S118. The HPLC data of **1v** in Scheme 2.

a



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	24.23	n.a.	154.699	77.890	66.66	n.a.	BMB*
2	25.98	n.a.	73.227	38.963	33.34	n.a.	BMB*
Total:			227.926	116.853	100.00	0.000	

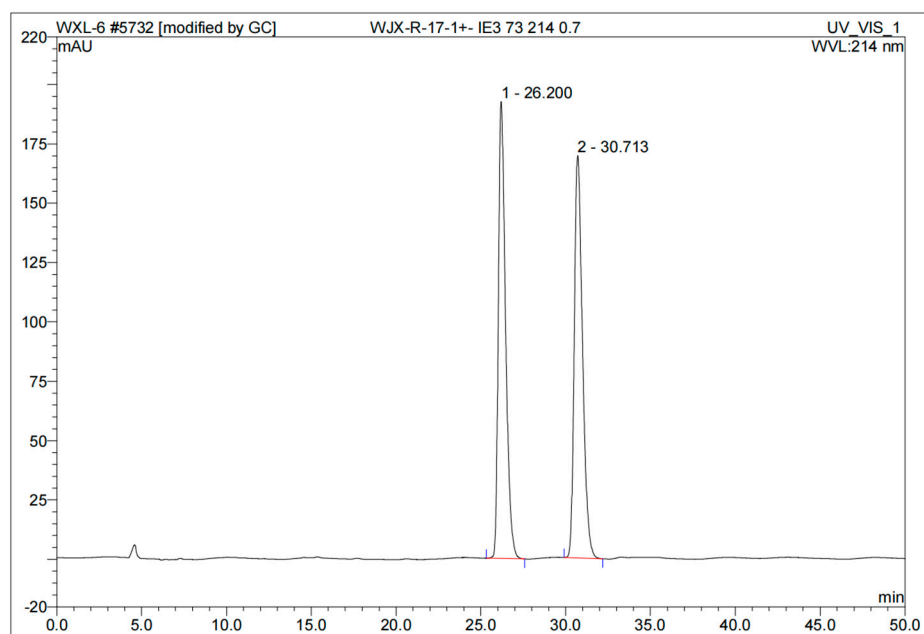
b



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	24.22	n.a.	42.802	21.470	12.82	n.a.	BMB*
2	25.95	n.a.	269.892	146.018	87.18	n.a.	BMB*
Total:			312.694	167.488	100.00	0.000	

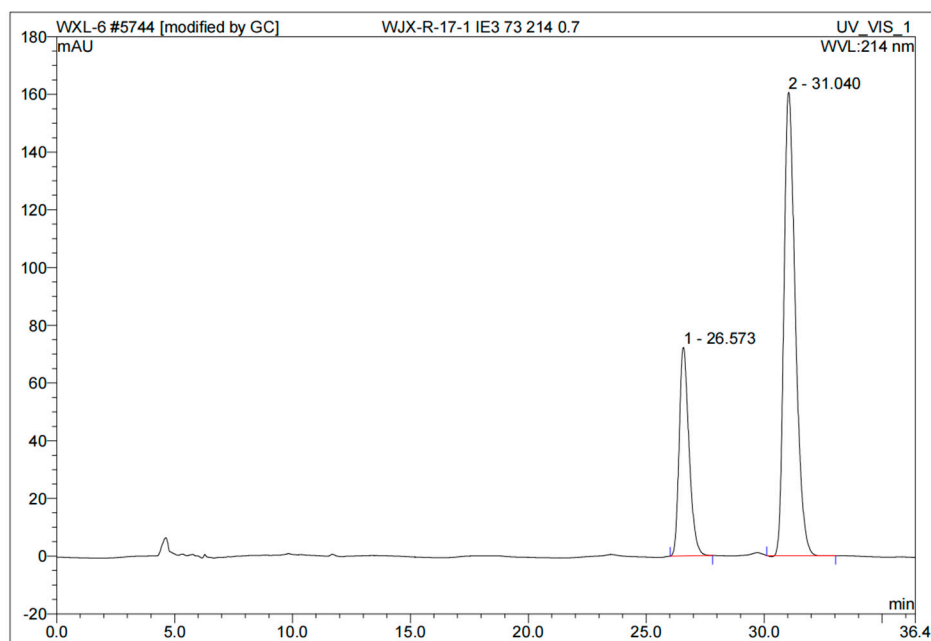
Figure S119. The HPLC data of **2v** in Scheme 2.

a



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	26.20	n.a.	192.547	95.390	50.01	n.a.	BMB
2	30.71	n.a.	169.622	95.350	49.99	n.a.	BMB
Total:			362.169	190.739	100.00	0.000	

b

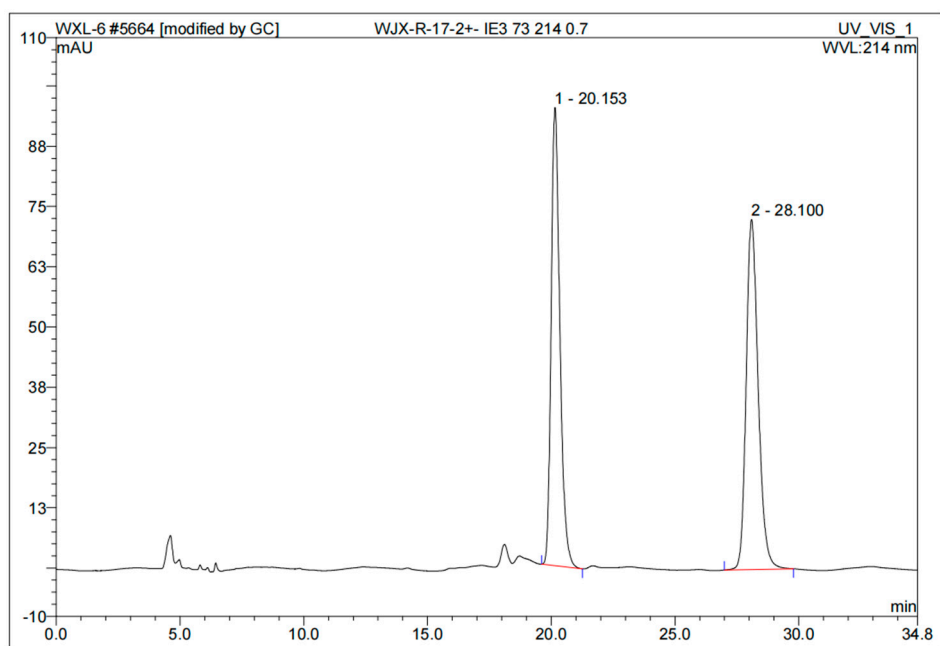


No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	26.57	n.a.	72.262	34.965	27.91	n.a.	BMB*
2	31.04	n.a.	160.638	90.296	72.09	n.a.	BMB*
Total:			232.900	125.261	100.00	0.000	

Figure S120. The HPLC data of **1w** in Scheme 2.

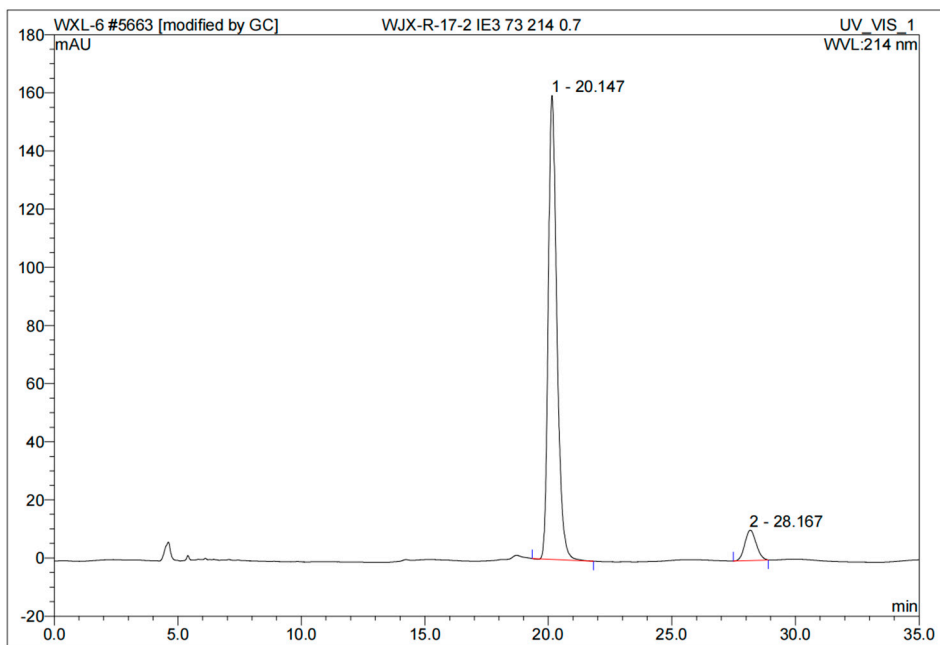


a



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	20.15	n.a.	95.080	38.738	48.64	n.a.	BMB*
2	28.10	n.a.	72.649	40.899	51.36	n.a.	BMB
Total:			167.729	79.637	100.00	0.000	

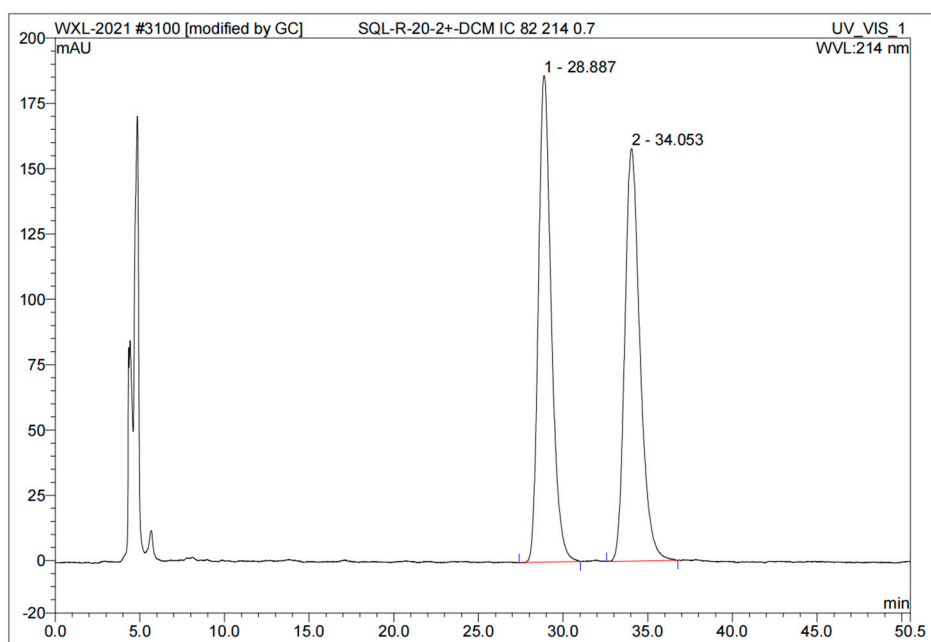
b



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	20.15	n.a.	159.625	64.527	92.09	n.a.	BMB*
2	28.17	n.a.	10.411	5.542	7.91	n.a.	BMB*
Total:			170.036	70.069	100.00	0.000	

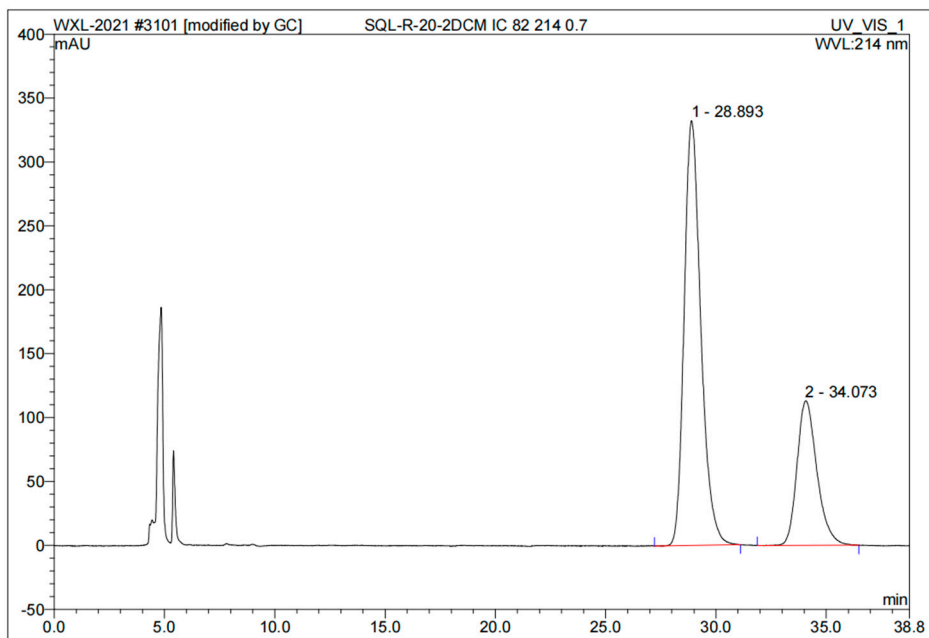
Figure S121. The HPLC data of **2w** in Scheme 2.

a



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	28.89	n.a.	186.293	164.003	49.96	n.a.	BMB*
2	34.05	n.a.	157.927	164.269	50.04	n.a.	BMB*
Total:			344.220	328.272	100.00	0.000	

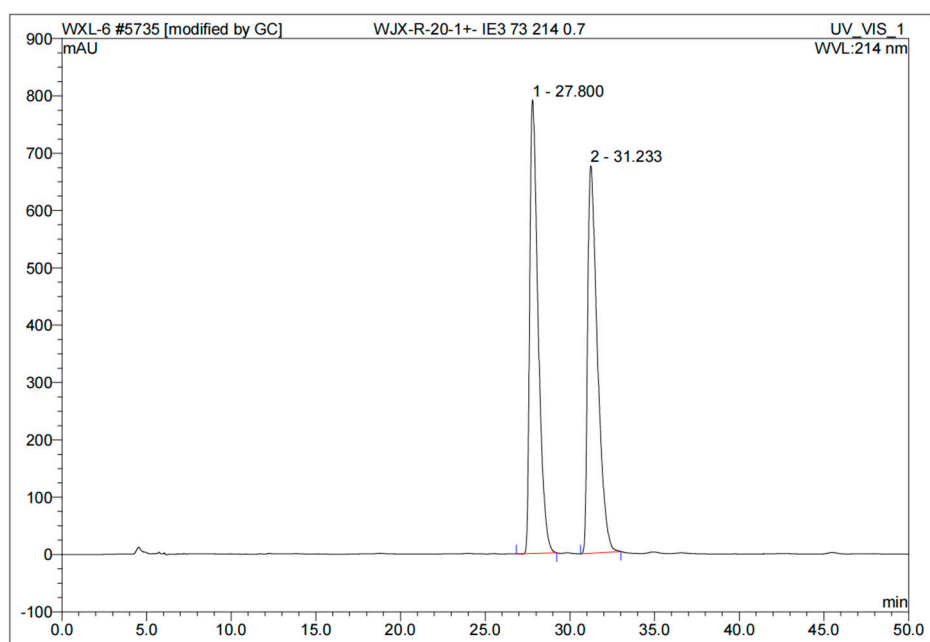
b



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	28.89	n.a.	332.585	291.835	71.08	n.a.	BMB*
2	34.07	n.a.	113.273	118.741	28.92	n.a.	BMB*
Total:			445.859	410.576	100.00	0.000	

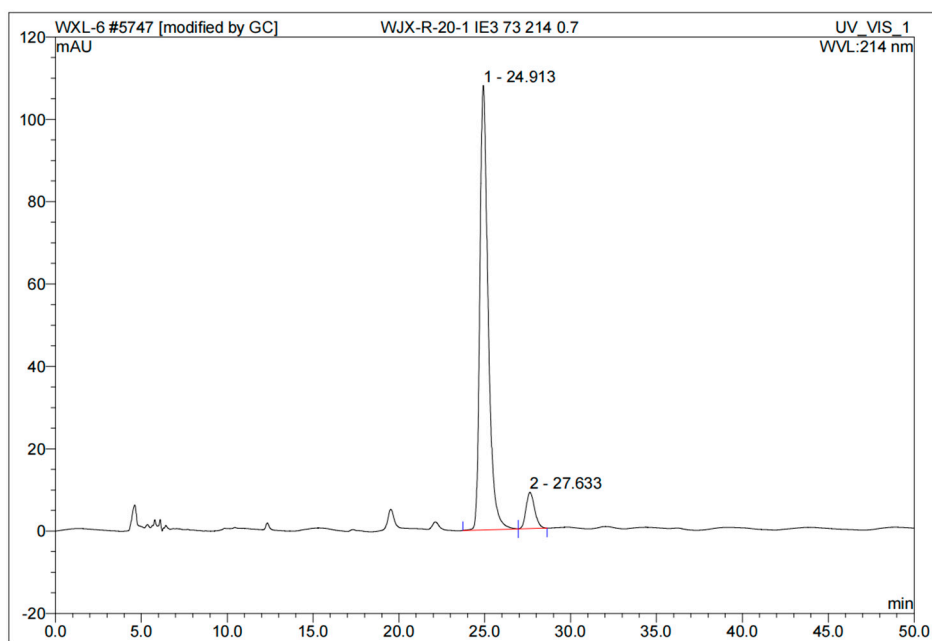
Figure S122. The HPLC data of **1x** in Scheme 2.

a



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	27.80	n.a.	791.678	455.772	49.98	n.a.	BMB*
2	31.23	n.a.	676.558	456.121	50.02	n.a.	BMB*
Total:			1468.237	911.893	100.00	0.000	

b

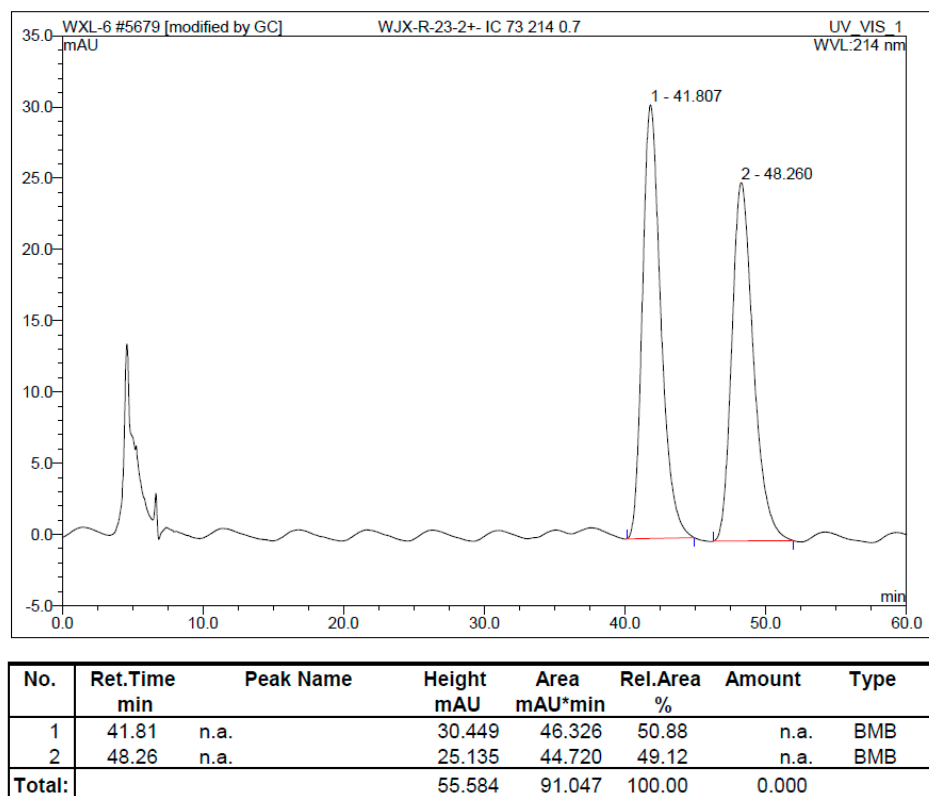


No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	24.91	n.a.	107.967	60.603	92.17	n.a.	BM
2	27.63	n.a.	8.897	5.145	7.83	n.a.	MB
Total:			116.864	65.748	100.00	0.000	

Figure S123. The HPLC data of **2x** in Scheme 2.

7. The HPLC data of **3** in Scheme 3.

a



b

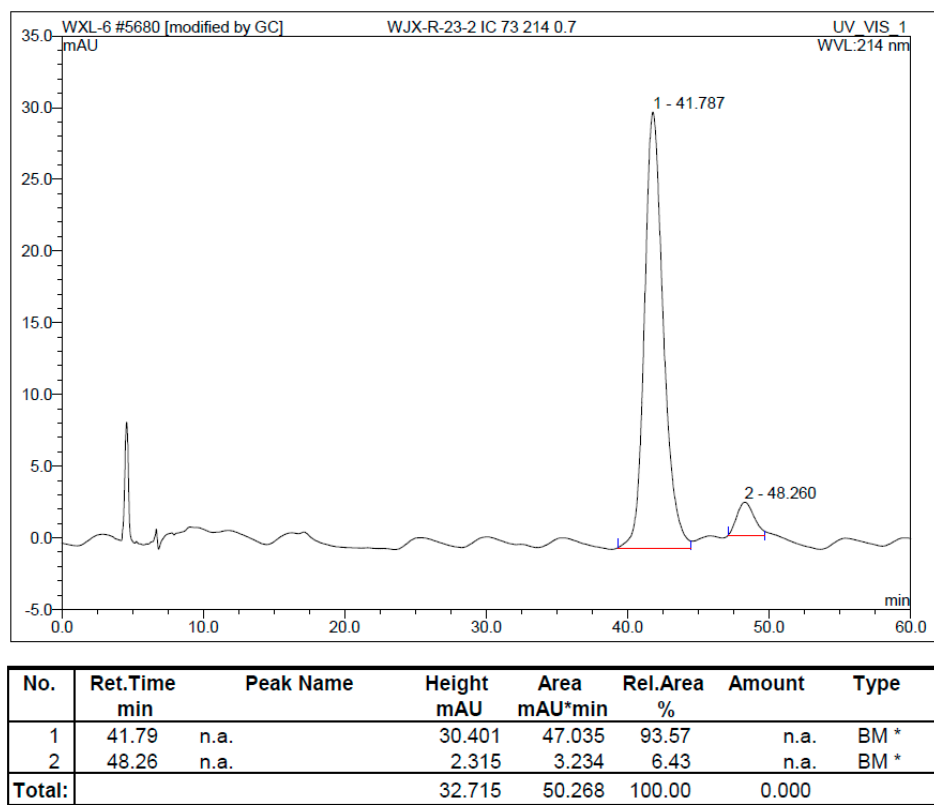
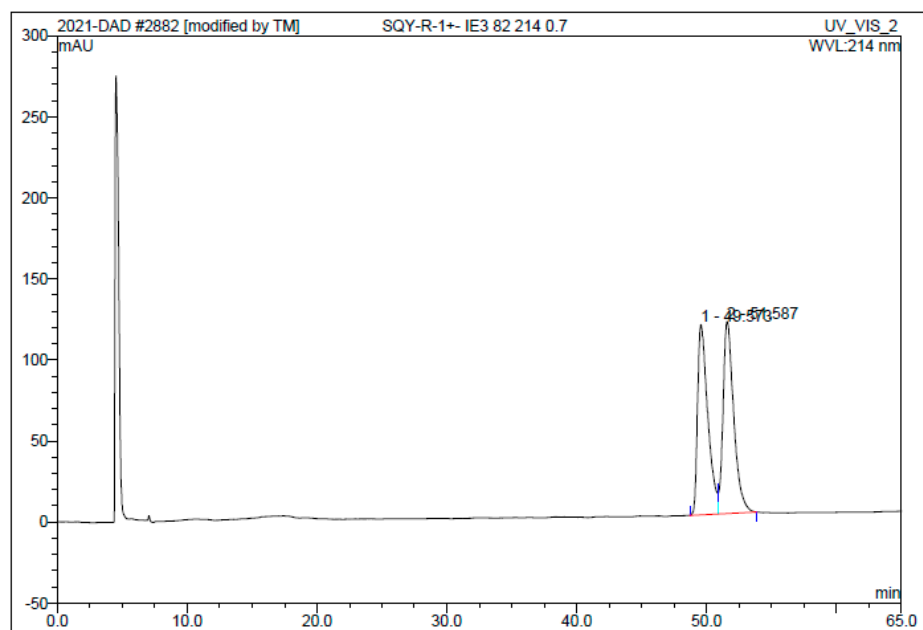


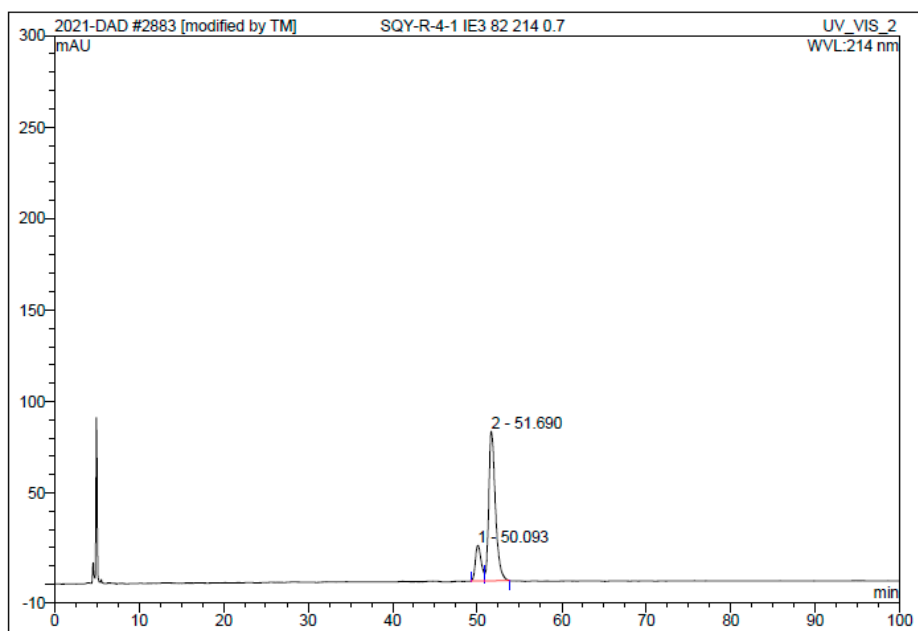
Figure S124. The HPLC data of **3** in Scheme 3.

a



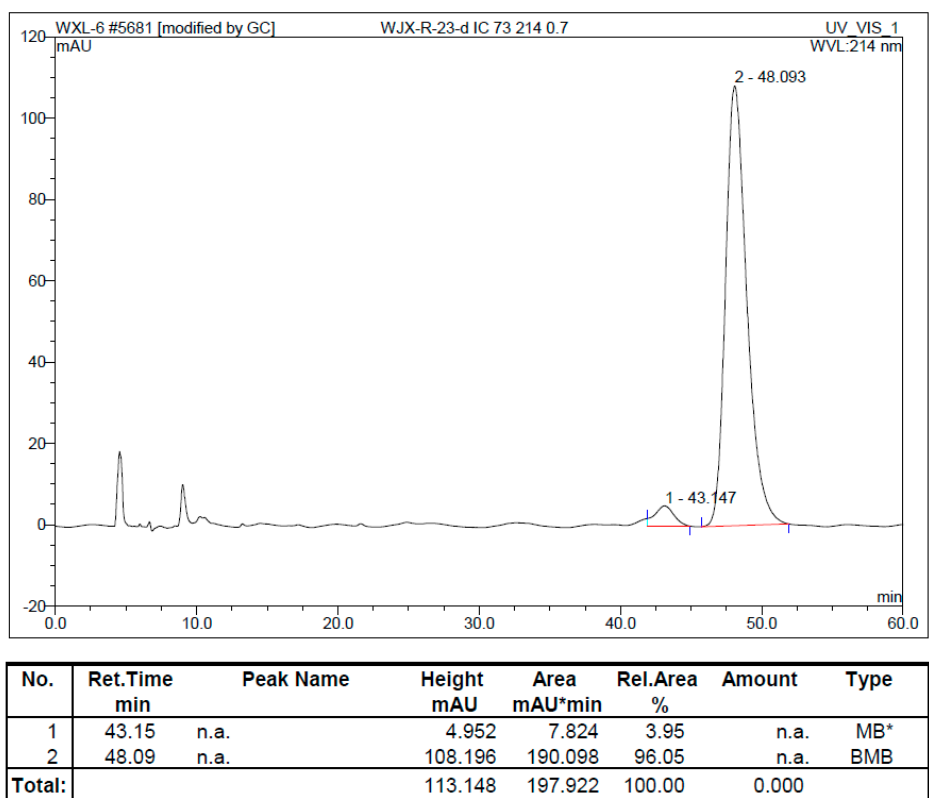
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	49.57	n.a.	117.267	107.068	48.45	n.a.	BM
2	51.59	n.a.	118.407	113.926	51.55	n.a.	MB
Total:			235.674	220.995	100.00	0.000	

b



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount	Type
1	50.09	n.a.	19.370	15.584	17.26	n.a.	BM
2	51.69	n.a.	81.758	74.695	82.74	n.a.	MB
Total:			101.128	90.279	100.00	0.000	

Figure S125. The HPLC data of **1v** in Scheme 3.



**Figure S126.** The HPLC data of **4** in Scheme 3.