

Supporting Materials

Query	3241	FSHSGSDLVYQPQTITSIAVLQSGFRKMAFPSSGKVEGCMVQVTCGTTTLNGLWLDVVY	3300	WUHAN Viral	1	SGFRKMAFPSSGKVEGCMVQVTCGTTTLNGLWLDVVY	60
Sbjct	1	SGFRKMAFPSSGKVEGCMVQVTCGTTTLNGLWLDVVY	37	SN50:A PDBID CH..	1	SGFRKMAFPSSGKVEGCMVQVTCGTTTLNGLWLDVVY	60
Query	3301	CPRHVICTSEDMLNPYEDLLIRKSNHFLVQAGNVQLRVIGHSMQNCVLKLVDTAMPK	3360	WUHAN Viral	61	KSNHNFVQAGNVQLRVIGHSMQNCVLKLVDTANPKTPRYKRVRIQPGQTFSLVACYNG	120
Sbjct	38	CPRHVICT+EDMLNPYEDLLIRKSNH+FLVQAGNVQLRVIGHSMQNC+L+LKVD+HPK	97	SN50:A PDBID CH..	61	KSNHNFVQAGNVQLRVIGHSMQNCVLKLVDTANPKTPRYKRVRIQPGQTFSLVACYNG	120
Query	3361	TPKYKFVRIQPGQTFSLVACYNGSPSGVYQCAMRPNITKGSFLNGSCGSGVFNIDYDCV	3420	WUHAN Viral	121	SPSGVYQCAMRPNITKGSFLNGSCGSGVFNIDYDCVFCYMHMELPTGVHAGTDLEGK	180
Sbjct	98	TPKYKFVRIQPGQTFSLVACYNGSPSGVYQCAMRPNITKGSFLNGSCGSGVFNIDYDCV	157	SN50:A PDBID CH..	121	SPSGVYQCAMRPNITKGSFLNGSCGSGVFNIDYDCVFCYMHMELPTGVHAGTDLEGK	180
Query	3421	SFCYMHMELPTGVHAGTDLEGKFGYGFVDRQTAQAAGDTTITVNLVLAAYAVINGDR	3480	WUHAN Viral	181	FGYGFVDRQTAQAAGDTTITVNLVLAAYAVINGDRWFLNRFTTILNDFNLVAMKYNYE	240
Sbjct	158	SFCYMHMELPTGVHAGTDLEGKFGYGFVDRQTAQAAGDTTITVNLVLAAYAVINGDR	217	SN50:A PDBID CH..	181	FGYGFVDRQTAQAAGDTTITVNLVLAAYAVINGDRWFLNRFTTILNDFNLVAMKYNYE	240
Query	3481	WFLNRFITTLNDFNLVAMKYNYEPLTQDHVDILGPLSAQTGIAVDMCAALKELLQNGMN	3540	WUHAN Viral	241	PLTQDHVDILGPLSAQTGIAVDMCAALKELLQNGMGRITLGSALLEDEFTPFDDVVRQC	300
Sbjct	218	WFLNRFITTLNDFNLVAMKYNYEPLTQDHVDILGPLSAQTGIAVDMCAALKELLQNGMN	277	SN50:A PDBID CH..	241	PLTQDHVDILGPLSAQTGIAVDMCAALKELLQNGMGRITLGSALLEDEFTPFDDVVRQC	300
Query	3541	GRTILGSALLEDEFTPFDDVVRQCSGVTFQSGAVKRTIKGTHWLLTILTSLLVLVQSTQW	3600	WUHAN Viral	301	SGVTFQ	306
Sbjct	278	GRTILGSALLEDEFTPFDDVVRQCSGVTFQ	306	SN50:A PDBID CH..	301	SGVTFQ	306

Date of job execution	2020-01-28
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Running time	13.8 seconds
Identical positions	294
Identity	96.078%
Similar positions	12
Program	CLUSTALO

Figure S1. Sequence alignment between SARS-CoV-2 3CL^{pro} and SARS-CoV 3CL^{pro}.

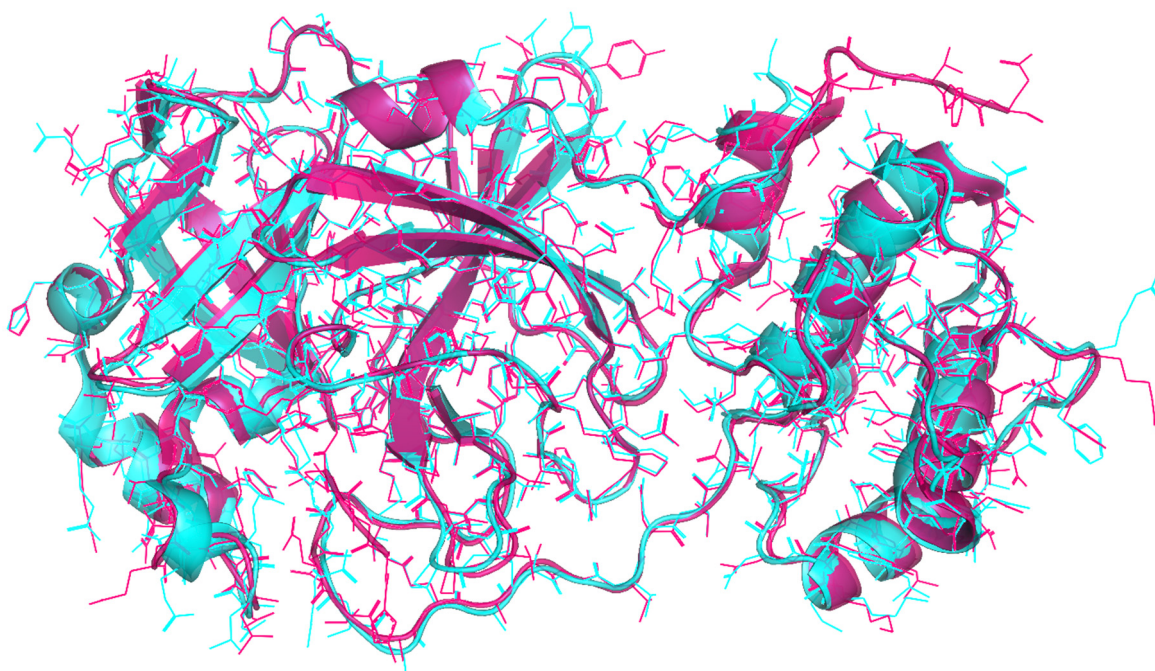


Figure S2. Structure superposition between SARS-CoV-2 3CL^{pro} (PDB ID: 6LU7 shown in magenta) and SARS-CoV 3CL^{pro} (PDB ID: 3D62 shown in cyan) with an RMSD of 0.44 Å.

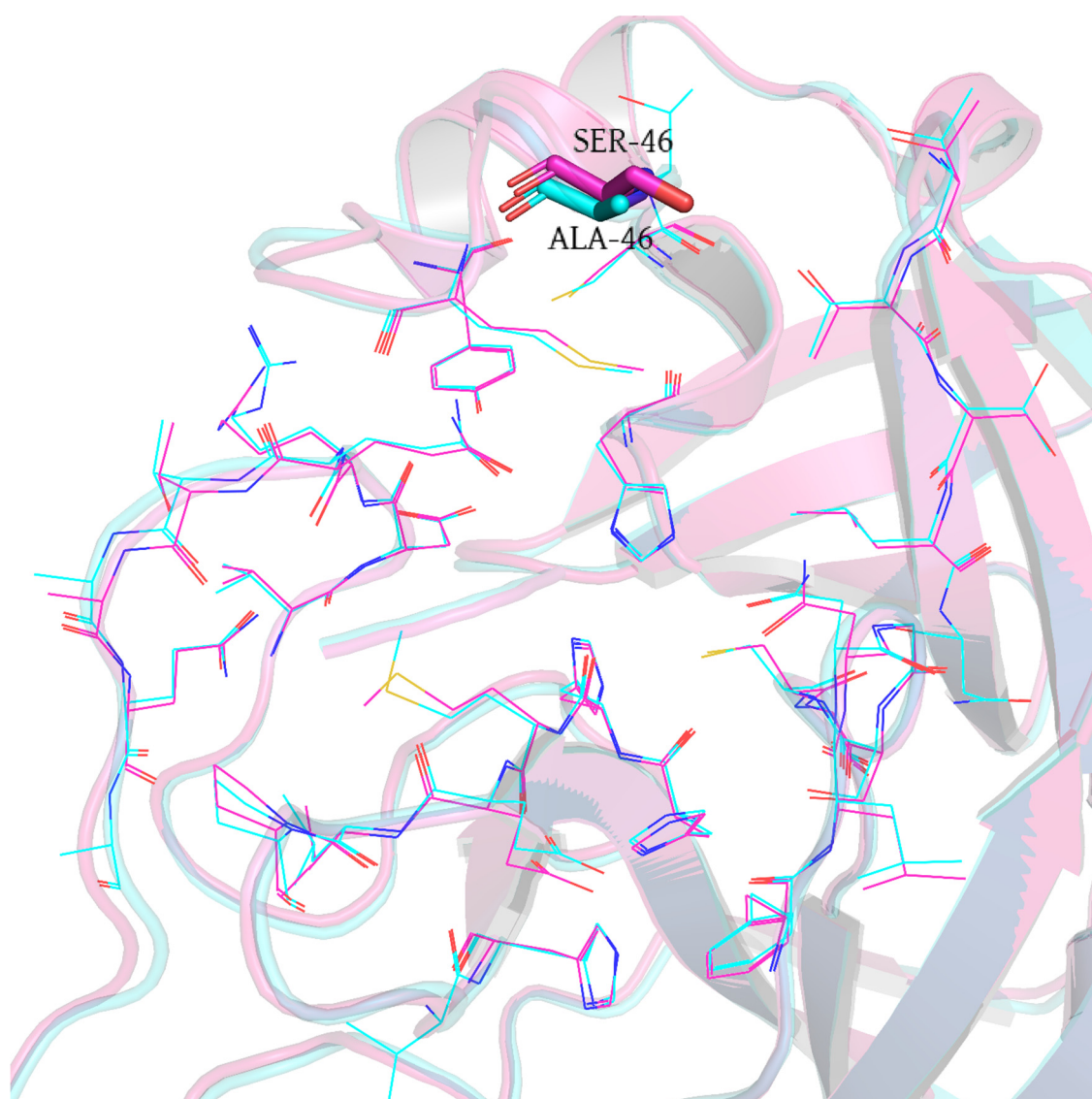


Figure S3. Substrate-binding site superimposition of SARS-CoV-2 3CL^{pro} (PDB ID: 6LU7, magenta cartoon) and SARS-CoV 3CL^{pro} (PDB ID: 2HOB, cyan cartoon). Amino acid residues in the 6Å range of the original molecular ligand N3 (SARS-CoV-2 3CL^{pro}: lines in magentas, SARS-CoV 3CL^{pro}: lines in cyan) are selected for comparative analysis, and only the residues at position 46 are different. The residue of SARS-CoV-2 3CL^{pro} at position 46 is serine (shown with sticks in magentas), while alanine in SARS-CoV 3CL^{pro} (shown with sticks in cyan).

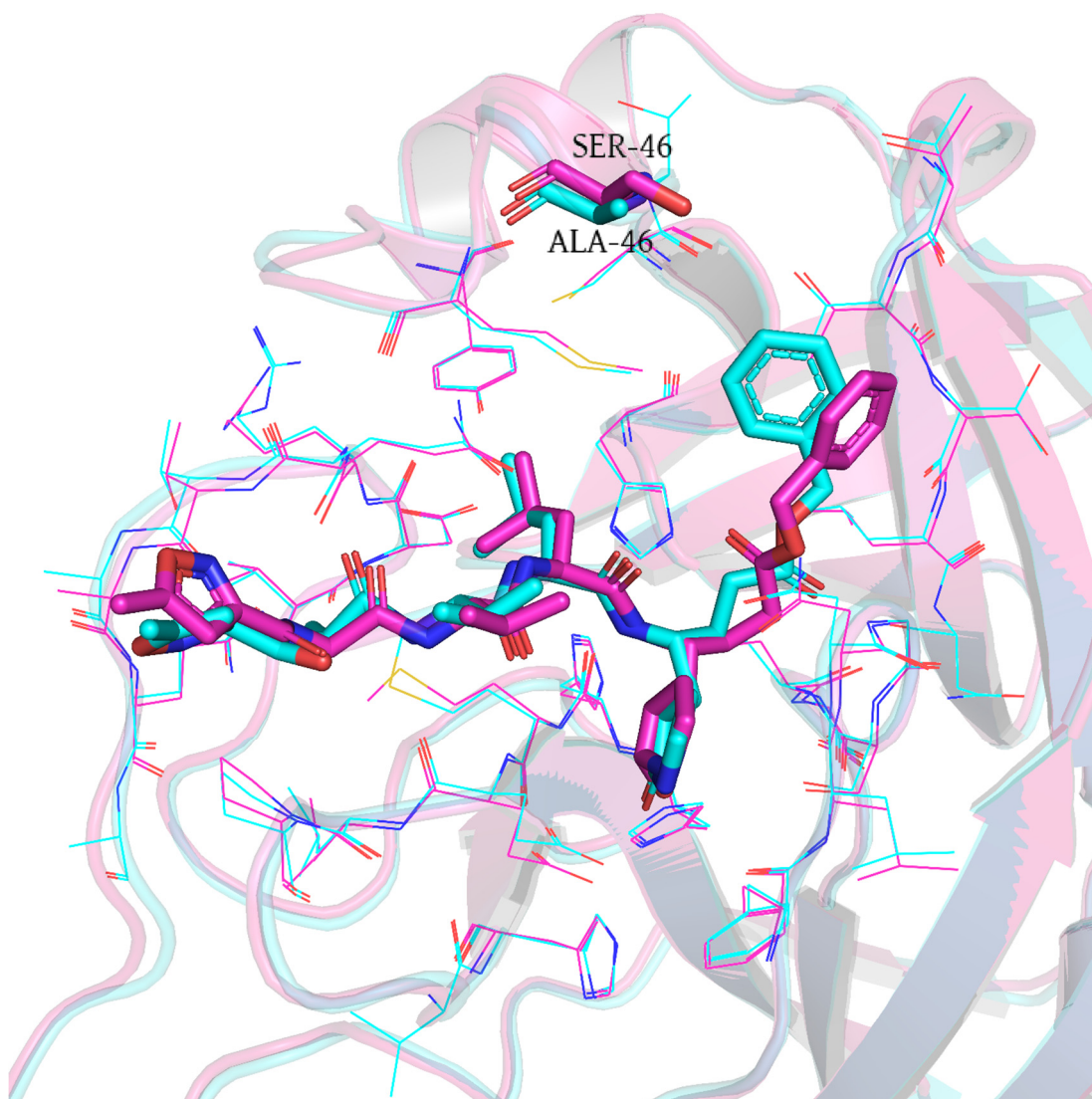


Figure S4. Comparison of the ligand conformations between SARS-CoV-2 3CL^{pro} (PDB ID:6LU7) and SARS-CoV 3CL^{pro} (PDB ID:2HOB). The ligand structure of SARS-CoV-2 3CL^{pro} is shown with sticks in magenta, while the ligand of SARS-CoV 3CL^{pro} is shown with sticks in cyan.

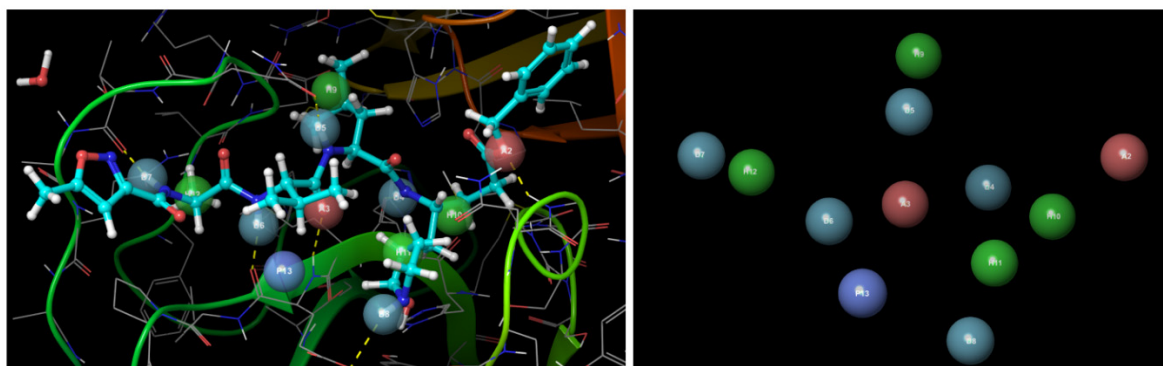


Figure S5. The pharmacophore model embedded in the *R* function. The pharmacophore consists of two hydrogen receptors (red spheres), five hydrogen donors (light blue spheres), four hydrophobic characteristics (green spheres) and a positive charge center (blue spheres).

Tables S1. Results of non-covalent and covalent docking results.

ID	docking score	cdock affinity	KabschRmsd	StraightRmsd	SMILES
1	-7.63				N1CC[C@H](C1=O)N[C@H](C(=O)C=O)Cn2nnc(c23)ecce3Oe(c4ecce5)nc(c6c45)ecce6
2	-7.743	-5.464	2.752	9.245	N1CC[C@H](C1=O)[C@H](C1=O)N[C@H](CC2)C(=O)/C=C/[C@H](C)(N)(C=O)c3ccc(o3)Cl)OCc(c4)ccc(c45)n(C)c(n5)C
3	-6.802	-6.374	2.381	6.455	c1c[nH]jcc(c12)nc(n2)N[C@@]/(C=C/C=O)/C[C@H](C3=O)CCN3)c4e(O)c(c(o4)C=O)-c5c(Cl)cc(F)ec5
4	-6.807	-6.102	2.491	8.626	N1CC[C@H](C1=O)C[C@H](N)(C=C/C(=O)Nc(ccc2)(c22CCC=O)-n3nnc(c34)cccc4C[C@H](N)CC=O
5	-8.739	-8.171	4.254	8.37	NC(=O)COC(=O)/C=C/[C@H](H)(N)(C)[C@H]1[C@H](O)c(c2cccc3)nc(c4c23)OC(=O)C@H(=O)N[C@H](C=O)N[C]C@H(C5=O)CCN5
6	-8.772	-6.262	4.314	9.295	FCC(=O)c1ccc(o1)[C@@](N)(C)[C@@H](C2=O)CCN2)C=C/C(=O)N[C@H](C=O)[C@H](O)Cc(c3)sc(c34)ecccc4
7	-7.787				N1CC[C@H](C1=O)N[C@H](C(=O)C=O)Cc2ccc(Cl)cc2
8	-7.349				O=CC(=O)[C@H](N)(C)C1ccnc(c12)c(c(CN)cc2)C[C@H](C3=O)CCN3
9	-8.874	-7.388	1.473	1.734	O=c1c(O)ccc(c12)ccc(c22O)NC(=N[H])c3c(CCC)cc(c3)N[C@H](N)/(C=C/C=O)/C[C@H](C4=O)CCN4
10	-8.967	-4.159	2.393	11.36	N1CC[C@H](C1=O)C[C@H](H)(N)C=C/C(=O)N(C)C(=O)[C@H](C)[C@H](c(s2)ccc2C=O)[C@H](H)[C@H](N)(C)C(C)C)c3cccc(c34)ecccc4
11	-9.075	-6.923	3.952	5.132	N1CC[C@H](C1=O)C[C@H](N)/(C=C/C=O)c2c(ccc(s2)C=O)-c(n3)nc(c34)cn(C)ccc4N)[C@H](C)C5c[nH]N5
12	-7.256	-5.275	3.352	7.935	O=C/C=C/C[C@H](C)(N)C[C@H](C1=O)[C@H](OCC=O)CN1C(=O)[C@H](c2)ccc(c23)n(C(=O)C)cc3C(C)(C)c4)sc(c45)ecccc5
13	-7.545	-7.222	2.834	4.748	N1CC[C@H](C1=O)C[C@H](N)/(C=C/C=O)N(C2=O)CCCN2c(cc3O)ccc(c34)ccc(c4=O)N[C@H](C=O)C
14	-6.823	-5.008	1.639	4.562	s1ccc1l[C@@]/([C@H](N)(C)C=O)([C@H](C2=O)CCN2)c3ccc(cc3)C=C/C=O
15	-8.301				N1CC[C@H](C1=O)N[C@H](C(=O)C=O)Cc2c3(CCCC3)cc(F)cc2Cl
16	-7.663	-7.199	1.837	4.789	N1CC[C@H](C1=O)N[C@H](C(=O)C(=O)O)Cc(c2)sc(c23)ecccc3
17	-6.766	-5.437	3.614	4.207	O=c(o1)oc(C)c1CN[C@H]/(C=C/C=O)/C[C@H](C2=O)CCN2)c3c(ccc(=O)o3)O)C@H]4CO[C@H]([C@H]45)OCC5
18	-7.404				N1CC[C@H](C1=O)C[C@H](C=O)N(CC=O)[C@H](C(=O)C=O)Cc2cc(N)ccc2
19	-7.632	-8.385	2.899	5.489	N1CC[C@H](C1=O)C[C@H](N)/(C=C/C=O)[C@H](CC2)C[C@H]2([N](C)C)[C@H](C=O)[C@H](C)O)c(cc3=O)oc(c34)cc(O)cc4O
20	-7.234	-6.597	1.873	2.615	N1CC[C@H](C1=O)N[C@H](C(=O)C(=O)O)Cc(c(c2=O)O)ccc(c23)c(O)c(O)cc3O
21	-8.133	-6.518	1.907	8.581	N1CC[C@H](C1=O)C[C@H](H)(N)C=C/C(=O)O[C@H]2CO[C@H]([C@H]23)O[C@H](C3)(NC(C)C)CC)N(C(=O)CC)c4cccc4
22	-7.2	-7.392	4.657	6.777	n1nccn1-c(s2)nc2C(=O)[C@H](C)[C@H](C3=O)CCN3)N[C@H](C=O)[C@H](O)(C=O)N(C@H)(C)(C)C=C/C=O
23	-7.625	-6.972	2.61	7.52	c1cccc(c12)c(=O)[nH]n(c2=O)[C@@](N)(C=C/C(=O)N[C@H](C(=O)O)CC)C[C@H](C3=O)C[C@H](N3)C[C@H](N)CC
24	-7.211				O=CC(=O)[C@H](N)Cc(m1)nc(c12)C[C@H](N)(NC2)CCC[C@H](C3=O)CCN3
25	-8.133				N1CC[C@H](C1=O)N[C@H](C(=O)C=O)Cc2c(O)c(Cl)ccc(Cl)c2Cl
26	-8.346	-8.322	3.402	8.209	C[C@H](H)(N)(C=O)NN(CCC(=O)N)C(=O)c(c12)[nH]cc1c1C[C@H](N)/(C=C/C=O)/C[C@H](C3=O)CCN3)cc2C[C@H](N)CC=O
27	-7.308				N1CC[C@H](C1=O)N[C@H](C(=O)C=O)Cc2ccc2
28	-6.845				s1ccc1C[C@H](C(=O)C=O)NCC[C@H](N)C[C@H](C2=O)CCN2
29	-8.176	-7.667	1.921	2.503	CC(C)[C@H](B(O)N)Nc(s1)nc1C(=O)[C@H](N)CC(C(=O)[C@H](N)CC)C(=O)C/[C@H](N)C[C@H](C2=O)CCN2
30	-6.241				C1CC1C[C@H](C(=O)C=O)N(C)C@H](C2=O)CCN2
31	-6.502				N1CC[C@H](C1=O)N[C@H](C(=O)C=O)CC2CCCC2
32	-5.731				O=CC(=O)[C@H](N)(C)[C@H](C1=O)C[C@H](C)(N)CC)N1[C@@H]2(OCC(C)C)CC[C@H](H)(O)CC2
33	-7.246				N1CC[C@H](C1=O)[C@H]2N[C@H](C)[C@H](N)(C=O)C=O[C[C@H](C)[C@H](H)23][C@H](SC)CCC3
34	-5.337				O=CC(=O)[C@H](N)(C)[C@H](C1=O)CCN1
35	-5.52	-5.461	2.191	6.963	C[C@H](N)(C=O)C(=O)NC(=O)/C=C/[C@H](N)C[C@H](C1=O)CCN1
36	-4.847				O=CC(=O)N(C)(C)NC(=O)[C@H](CC(C)C)N(C@H)(C1=O)CCN1
37	-7.325	-5.179	1.83	2.911	O=CC(=O)[C@H](N)(C(=O)C=O)/C=C/[C@H](N)C[C@H](C1=O)CCN1
38	-6.459				O=CC(=O)[C@H](N)(C@H)(N)[C@H](H)1[C@H](H)(C2=O)CCN2)N[C@H](N1)N(C)C
39	-7.998	-6.302	3.796	9.2	n1cc(C)nc1C(=O)N[C@H](C)[C@H](C2=O)CCN2)C=C/C(=O)O)nc(c3c45)ecccc3)c4cc(cc5)-c6ccc([N+])([O-])

Several lead compounds do not have the covalent docking results as their reactive group is in an unsuitable direction to 145CYS. All RMSD values are heavy atoms based. The unity is kcal/mol

KabschRmsd: Root-mean-square deviation (RMSD) is calculated with the Kabsch algorithm (1976) doi: <http://dx.doi.org/10.1107/S0567739476001873>).

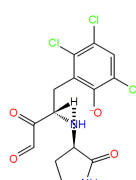
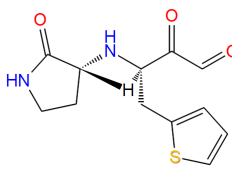
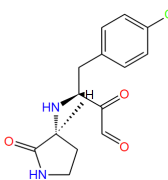
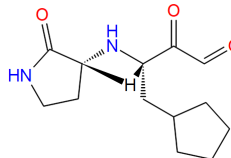
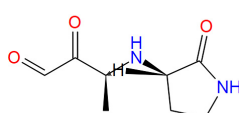
StraightRmsd: Root-mean-square deviation (RMSD) is calculated directly from the atomic coordinates without superimposing the atoms.

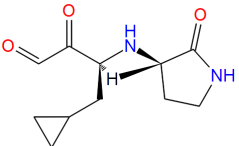
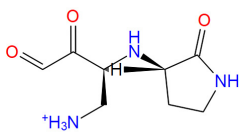
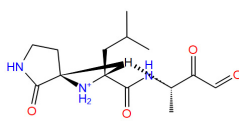
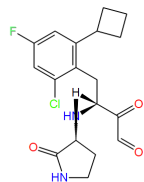
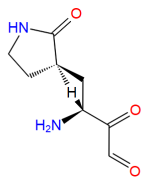
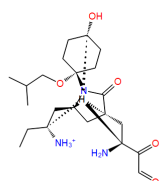
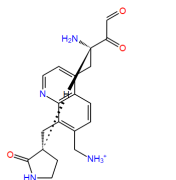
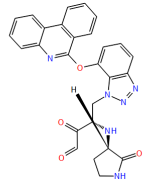
The unity for Both RMSD is Å

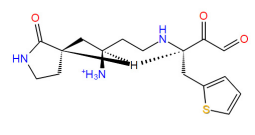
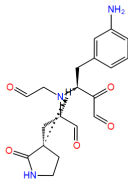
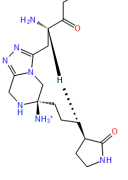
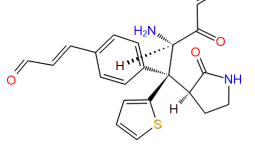
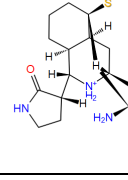
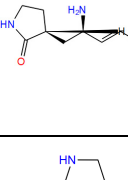
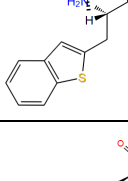
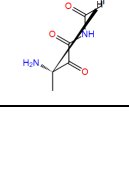
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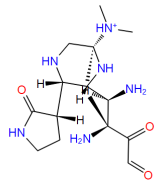
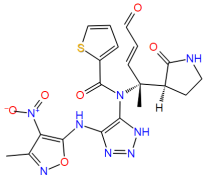
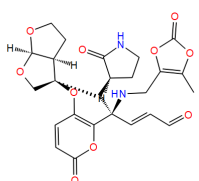
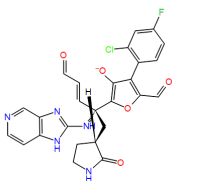
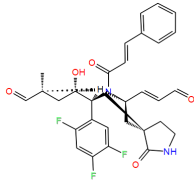
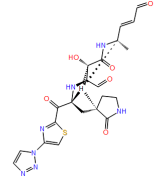
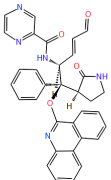
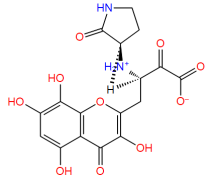
Note, a reaction definition is based on the SMILES arbitrary target specification (SMARTS), which is a chemical language for describing molecular patterns. We also use the same reaction type for adding fragments, except with the reverse reaction.

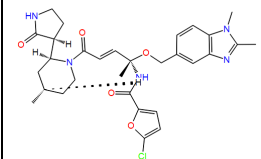
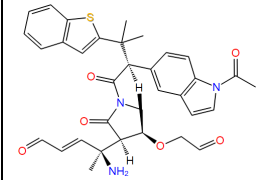
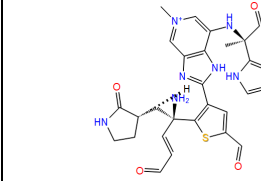
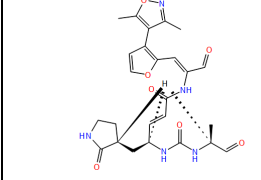
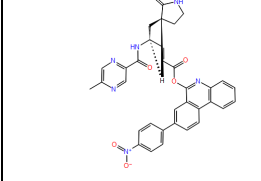
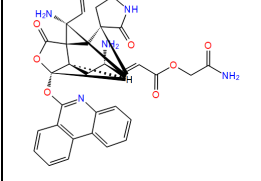
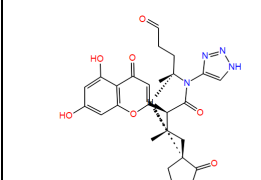
Table S3. Five clusters for the generative 47 leads

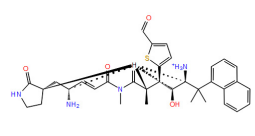
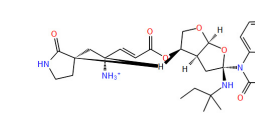
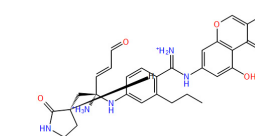
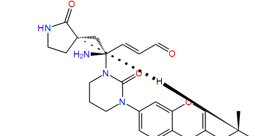
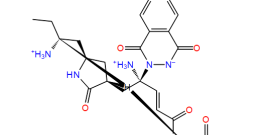
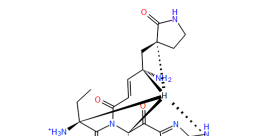
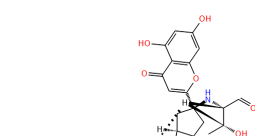
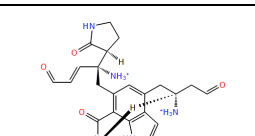
Cluster	Name	Structure	SMILES	Canvas Mean Shape Similarity
1	25		<chem>N1CC[C@H](C1=O)N[C@H](C(=O)C=O)Cc2c([O-])c(Cl)cc(Cl)c2Cl</chem>	0.001
	27		<chem>N1CC[C@H](C1=O)N[C@H](C(=O)C=O)Cc2cccs2</chem>	0.001
	7		<chem>N1CC[C@H](C1=O)N[C@H](C(=O)C=O)Cc2ccc(Cl)cc2</chem>	0.001
	31		<chem>N1CC[C@H](C1=O)N[C@H](C(=O)C=O)CC2CCCC2</chem>	0.001
	47		<chem>O=CC(=O)[C@H](C)N[C@@H](C1=O)CCN1</chem>	0.001

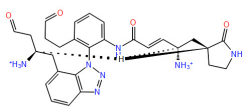
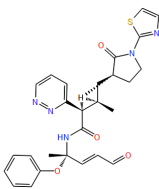
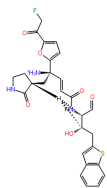
	30		<chem>C1CC1C[C@@H](C(=O)C=O)N[C@@H](C2=O)CCN2</chem>	0.001
	43		<chem>O=CC(=O)[C@H](C[NH3+])N[C@@H](C1=O)CCN1</chem>	0.001
2	36		<chem>O=CC(=O)[C@H](C)NC(=O)[C@H](CC(C)C)[NH2+][C@@H](C1=O)CCN1</chem>	0.002
	15		<chem>N1CC[C@H](C1=O)N[C@H](C(=O)C=O)Cc2c(C3CCC3)cc(F)cc2Cl</chem>	0.002
	34		<chem>O=CC(=O)[C@@H](N)C[C@@H](C1=O)CCN1</chem>	0.002
3	32		<chem>O=CC(=O)[C@@H](N)C[C@@H](C1=O)C[C@@H](C[C@H]([NH3+])CC)N1[C@@]2(OCC(C)C)CC[C@@H](O)CC2</chem>	0.003
	8		<chem>O=CC(=O)[C@H](N)Cc1ccnc(c12)c(c(C[NH3+])cc2)C[C@H](C3=O)CCN3</chem>	0.003
	1		<chem>N1CC[C@H](C1=O)N[C@H](C(=O)C=O)Cn2nnc(c23)cccc3Oc(c4cccc5)nc(c6c45)cccc6</chem>	0.003

28		<chem>s1cccc1C[C@@H](C(=O)C=O)NC</chem> <chem>C[C@@H]([NH3+])C[C@@H](C2=O)CCN2</chem>	0.003
18		<chem>N1CC[C@H](C1=O)C[C@@H](C=O)N(CC=O)[C@H](C(=O)C=O)C</chem> <chem>c2cc(N)ccc2</chem>	0.003
24		<chem>O=CC(=O)[C@@H](N)Cc1nnc1n(c12)C[C@@]([NH3+])(NC2)CCC[C@@H](C3=O)CCN3</chem>	0.003
14		<chem>s1cccc1[C@@]([C@H](N)C(=O)C=O)([C@@H](C2=O)CCN2)c3ccc(C=C\C=O</chem>	0.003
33		<chem>N1CC[C@H](C1=O)[C@H]2[NH2+][C@H](C[C@H](N)C(=O)C=O)C[C@@H]([C@@H]23)[C@H](SC)CCC3</chem>	0.003
37		<chem>O=CC(=O)[C@H](C)N(C(=O)C(=O)/C=C/[C@H](N)C[C@@H](C1=O)CCN1</chem>	0.003
16		<chem>N1CC[C@H](C1=O)[NH2+][C@H](C(=O)C([O-])=O)Cc2sc(c23)ccc3</chem>	0.003
35		<chem>C[C@H](N)C(=O)C(=O)NC(=O)/C=C/[C@H](N)C[C@@H](C1=O)CCN1</chem>	0.003

	38		<chem>O=CC(=O)[C@@H](N)[C@H](N)[C@@H]1[C@H]([C@@H](C2=O)CCN2)NC[C@@H](N1)[NH+](C)C</chem>	0.003
4	44		<chem>s1cccc1C(=O)N([C@](C)(/C=C/C=O)[C@@H](C2=O)CCN2)c([nH]n3)c3Nc(on4)c([N+][O-])=O)c4C</chem>	0.004
	17		<chem>O=c(o1)oc(C)c1CN[C@](C)(/C=C/C=O)(C[C@@H](C2=O)CCN2)c3c(ccc(=O)o3)O[C@H]4CO[C@H]([C@H]45)OCC5</chem>	0.004
	3		<chem>c1nccc(c12)[nH]c(n2)N[C@@](C)(/C=C/C=O)(C[C@@H](C3=O)CCN3)c4c([O-])c(c(o4)C=O)-c5c(Cl)cc(F)cc5</chem>	0.004
	42		<chem>c1cccc1\C=C\C(=O)N([C@@H](\C=C\C=O)C[C@@H](C2=O)CCN2)[C@H]([C@@H](O)C[C@H](C=O)C)c3c(F)cc(F)c(F)c3</chem>	0.004
	22		<chem>n1nccn1-c(c(s2)nc2C(=O)[C@H](C[C@@H](C3=O)CCN3)N[C@H](C=O)[C@H](O)C(=O)N[C@@H](C)\C=C\C=O</chem>	0.004
	40		<chem>n1ccncc1C(=O)N[C@H](\C=C\C=O)[C@](C)[C@@H](C2=O)CCN2)(c3cccc3)Oc(c4cccc5)nc(c6c45)cccc6</chem>	0.004
	20		<chem>N1CC[C@H](C1=O)[NH2+][C@H](C(=O)C([O-])=O)Cc(c(c2=O)O)oc(c23)c(O)c(O)cc3O</chem>	0.004

5	2		<chem>N1CC[C@H](C1=O)[C@H](C[C@H]2C)N(CC2)C(=O)/C=C/[C@@](C)(NC(=O)c3ccc(o3)Cl)OCc(c4)cc(c45)n(C)c(n5)C</chem>	0.005
	12		<chem>O=C/C=C/[C@](C)(N)[C@@H](C1=O)[C@H](OCC=O)CN1C(=O)[C@@H](c(c2)ccc(c23)n(C(=O)C)c3)C(C)(C)c(c4)sc(c45)cccc5</chem>	0.005
	11		<chem>N1CC[C@H](C1=O)C[C@@](N)(/C=C/C=O)c2c(cc(s2)C=O)-c([nH]3)nc(c34)c[n+](C)cc4N[C@](C=O)(C)c5c[nH+]c[nH]5</chem>	0.005
	45		<chem>Cc1onc(C)c1-c(cco2)c2/C=C(\C=O)NC(=O)/C=C/[C@H](C[C@@H](C3=O)CCN3)NC(=O)N[C@H](C=O)C</chem>	0.005
	39		<chem>n1cc(C)ncc1C(=O)N[C@H](C[C@@H](C2=O)CCN2)\C=C(\C=O)Oc(nc(c3c45)cccc3)c4cc(cc5)-c6ccc([N+](O-)=O)cc6</chem>	0.005
	5		<chem>NC(=O)COC(=O)/C=C/[C@@H](N)C[C@H]1[C@H](Oc(c2cccc3)nc(c4c23)cccc4)OC(=O)[C@@]1([C@@H](C=O)N)C[C@@H](C5=O)CCN5</chem>	0.005
	46		<chem>n1n[nH]cc1N([C@@H](C)CCC=O)C(=O)[C@@H]([C@H](C)C[C@@H](C2=O)CCN2)c(cc3=O)oc(c34)cc(O)cc4O</chem>	0.005

10		<chem>N1CC[C@H](C1=O)C[C@@H](N)C=C\C(=O)N(C)C(=O)[C@H](C)[C@@H](c(s2)ccc2C=O)[C@H](O)[C@@H]([NH3+])C(C)(C)c3cccc(c34)cccc4</chem>	0.005
21		<chem>N1CC[C@H](C1=O)C[C@@H]([NH3+])C=C\C(=O)O[C@H]2CO[C@H]([C@H]23)O[C@](C3)(NC(C)(C)CC)N(C(=O)CC)c4cccc4</chem>	0.005
9		<chem>[OH+]=c1c(O)coc(c12)cc(cc2O)NC(=[NH2+])c3c(CCC)cc(cc3)N[C@]([NH3+])/(C=C/C=O)C[C@@H](C4=O)CCN4</chem>	0.005
13		<chem>N1CC[C@H](C1=O)C[C@](N)/C=C/C=O)N(C2=O)CCCN2c(cc3O)c(c34)occ(c4=O)N[C@H](C=O)C</chem>	0.005
23		<chem>CC[C@@H](C([O-])=O)NC(=O)/C=C/[C@]([NH3+])(n([n-]c1=O)c(=O)c(c12)cccc2)C[C@@H](C3=O)C[C@@H](N3)C[C@H]([NH3+])C</chem>	0.005
29		<chem>CC(C)C[C@@H](B(O)O)Nc(cs1)nc1C(=O)[C@H](C)N(C(=O)[C@@H]([NH3+])CC)C(=O)/C=C/[C@@H](N)C[C@H](C2=O)CCN2</chem>	0.005
19		<chem>N1CC[C@H](C1=O)C[C@]([NH3+])/(C=C/C=O)[C@H](CC2)C[C@]2(N[C@H](C=O)[C@@H](C)O)c(cc3=O)oc(c34)cc(O)cc4O</chem>	0.005
26		<chem>C[C@H]([NH3+])C(=O)NN(CCC(=O)N)C(=O)c(c12)[nH]cc1)c(C[C@@]([NH3+])/(C=C/C=O)[C@@H](C3=O)CCN3)cc2C[C@@H]([NH3+])CC=O</chem>	0.005

	4		<chem>N1CC[C@H](C1=O)C[C@H]([NH3+])C=C(C(=O)Nc2cc2)c(c2CCC=O)-n3nnc(c34)cccc4C[C@@H]([NH3+])CC=O</chem>	0.005
	41		<chem>c1cccc1O[C@@](C)(/C=C/C=O)NC(=O)[C@@H](c2cccn2)[C@H](C)C[C@@H](C3=O)CCN3c4nccs4</chem>	0.005
	6		<chem>FCC(=O)c1ccc(o1)[C@@]([NH3+])(C[C@@H](C2=O)CCN2)\C=C\C(=O)N[C@H](C=O)[C@@H](O)Cc(c3)sc(c34)cccc4</chem>	0.005