

Supporting Information

SVM Model for Virtual Screening of Lck Inhibitors

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Table 1. Database of collected compounds used for building SVM model and validation.

No.	Compound ID	IC50 (nM)	Dataset	SMILES	Reference: DOI / PubMed Unique Identifier
1	1	59	Train	<chem>C1(=C(C(=C2C(=C1[H])N=C(C(=C2N(C3=C(C(=C(C(=C3C([H])([H])([H])([H])O[H])([H])([H])([H])([H])C4=C(SC(=N4)C([H])=O)[H])</chem>	17600705
2	2	13	Train	<chem>C1(N(C2=NC(=C(C(=N2)[H])([H])N(C3=C(C(=C(C(=C3C([H])([H])([H])([H])O[H])([H])([H])([H])([H])=C(C(=C(C(=C1[H])C(=O)N([H])([H])([H])([H])([H])([H])</chem>	17600705
3	3	130	Train	<chem>C1(N(C2=NC(=C(C(=N2)[H])([H])N(C3=C(C(=C(C(=C3[H])([H])([H])([H])O[H])([H])([H])([H])([H])=C(C(=C(C(=C1[H])C(=O)N([H])([H])([H])([H])([H])([H])</chem>	17600705
4	4	73	Train	<chem>C1(N(C2=NC(=C(C(=N2)[H])([H])N(C3=C(C(=C(C(=C3[H])([H])([H])([H])O[H])([H])([H])([H])([H])=C(C(=C(C(=C1[H])C(=O)N([H])([H])([H])([H])([H])([H])</chem>	17600705
5	5	190	Train	<chem>C1(N(C2=NC(=C(C(=N2)[H])([H])N(C3=C(C(=C(C(=C3[H])([H])([H])([H])O[H])([H])([H])([H])([H])=C(C(=C(C(=C1[H])C(=O)N([H])([H])([H])([H])([H])([H])</chem>	17600705
6	6	41	Train	<chem>C1(N(C2=NC(=C(C(=N2)[H])([H])N(C3=C(C(=C(C(=C3Br)[H])([H])([H])([H])O[H])([H])([H])([H])([H])=C(C(=C(C(=C1[H])C(=O)N([H])([H])([H])([H])([H])([H])</chem>	17600705
7	7	880	Train	<chem>C1(N(C2=NC(=C(C(=N2)[H])([H])N(C3=C(C(=C(C(=C3C([H])([H])([H])([H])C([H])([H])([H])([H])([H])O[H])([H])([H])([H])([H])=C(C(=C(C(=C1[H])C(=O)N([H])([H])([H])([H])([H])([H])</chem>	17600705
8	8	89	Train	<chem>C1(N(C2=NC(=C(C(=N2)[H])([H])N(C3=C(C(=C(C(=C3C([H])([H])([H])([H])O[H])([H])([H])([H])([H])=C(C(=C(C(=C1[H])C(=O)N([H])([H])([H])([H])([H])([H])</chem>	17600705
9	9	40	Train	<chem>C1(N(C2=NC(=C(C(=N2)[H])([H])N(C3=C(C(=C(C(=C3C([H])([H])([H])([H])O[H])([H])([H])([H])([H])=C(C(=C(C(=C1[H])C(=O)N([H])([H])([H])([H])([H])([H])</chem>	17600705
10	10	100	Train	<chem>C1(N(C2=NC(=C(C(=N2)[H])([H])N(C3=C(C(=C(C(=C3C([H])([H])([H])([H])O[H])([H])([H])([H])([H])=C(C(=C(C(=C1[H])C(=O)N([H])([H])([H])([H])([H])([H])</chem>	17600705
11	11	270	Train	<chem>C1(N(C2=NC(=C(C(=N2)[H])([H])N(C3=C(C(=C(C(=C3C([H])([H])([H])([H])F([H])([H])([H])([H])=C(C(=C(C(=C1[H])C(=O)N([H])([H])([H])([H])([H])([H])</chem>	17600705
12	12	380	Train	<chem>C1(N(C2=NC(=C(C(=N2)[H])([H])N(C3=C(C(=C(C(=C3C([H])([H])([H])([H])Cl([H])([H])([H])([H])=C(C(=C(C(=C1[H])C(=O)N([H])([H])([H])([H])([H])([H])</chem>	17600705
13	13	86	Train	<chem>C1(N(C2=NC(=C(C(=N2)[H])([H])N(C3=C(C(=C(C(=C3C([H])([H])([H])([H])OC([H])([H])([H])([H])([H])([H])([H])([H])=C(C(=C(C(=C1[H])C(=O)N([H])([H])([H])([H])([H])([H])</chem>	17600705
14	14	97	Train	<chem>C1(N(C2=NC(=C(C(=N2)[H])([H])N(C3=C(C(=C(C(=C3C([H])([H])([H])([H])N([H])([H])([H])([H])([H])([H])([H])([H])=C(C(=C(C(=C1[H])C(=O)N([H])([H])([H])([H])([H])([H])</chem>	17600705
15	15	1300	Train	<chem>C1(N(C2=NC(=C(C(=N2)[H])([H])N(C3=C(C(=C(C(=C3C([H])([H])([H])([H])C(=O)N([H])([H])([H])([H])([H])([H])([H])([H])=C(C(=C(C(=C1[H])C(=O)N([H])([H])([H])([H])([H])([H])</chem>	17600705
16	16	9300	Train	<chem>C1(N(C2=NC(=C(C(=N2)[H])([H])N(C3=C(C(=C(C(=C3C([H])([H])([H])([H])C(=O)N([H])([H])([H])([H])([H])([H])([H])([H])=C(C(=C(C(=C1[H])C(=O)N([H])([H])([H])([H])([H])([H])</chem>	17600705
17	17	7700	Train	<chem>C1(N(C2=NC(=C(C(=N2)[H])([H])N(C3=C(C(=C(C(=C3C([H])([H])([H])([H])N(S(=O)(=O)C([H])([H])([H])([H])([H])([H])([H])([H])=C(C(=C(C(=C1[H])C(=O)N([H])([H])([H])([H])([H])([H])</chem>	17600705
18	18	3400	Train	<chem>C1(N(C2=NC(=C(C(=N2)[H])([H])N(C3=C(C(=C(C(=C3C([H])([H])([H])([H])C(N([H])([H])([H])([H])([H])([H])([H])([H])=C(C(=C(C(=C1[H])C(=O)N([H])([H])([H])([H])([H])([H])</chem>	17600705
19	19	2700	Train	<chem>C1(N(C2=NC(=C(C(=N2)[H])([H])N(C3=C(C(=C(C(=C3C([H])([H])([H])([H])OC([H])([H])([H])([H])([H])([H])([H])([H])=C(C(=C(C(=C1[H])C(=O)N([H])([H])([H])([H])([H])([H])</chem>	17600705
20	20	3300	Train	<chem>C1(N(C2=NC(=C(C(=N2)[H])([H])N(C3=C(C(=C(C(=C3C([H])([H])([H])([H])F([H])([H])([H])([H])=C(C(=C(C(=C1[H])C(=O)N([H])([H])([H])([H])([H])([H])</chem>	17600705
21	21	1800	Train	<chem>C1(N(C2=NC(=C(C(=N2)[H])([H])N(C3=C(C(=C(C(=C3C([H])([H])([H])([H])N(C([H])([H])([H])([H])C(=O)C([H])([H])([H])([H])([H])([H])([H])([H])=C(C(=C(C(=C1[H])C(=O)N([H])([H])([H])([H])([H])([H])</chem>	17600705
22	22	1100	Train	<chem>C1(N(C2=NC(=C(C(=N2)[H])([H])N(C3=C(C(=C(C(=C3C([H])([H])([H])([H])F([H])([H])([H])([H])=C(C(=C(C(=C1[H])C(=O)N([H])([H])([H])([H])([H])([H])</chem>	17600705
23	23	8.5	Train	<chem>C1(N(C2=NC(=C(C(=N2)[H])([H])N(C3=C(C(=C(C(=C3C([H])([H])([H])([H])O[H])([H])([H])([H])([H])([H])([H])([H])=C(C(=C(C(=C1[H])S(=O)(=O)N([H])([H])([H])([H])([H])([H])([H])([H])</chem>	17600705
24	24	54	Train	<chem>C1(N(C2=NC(=C(C(=N2)[H])([H])N(C3=C(C(=C(C(=C3C([H])([H])([H])([H])OC([H])([H])([H])([H])([H])([H])([H])([H])=C(C(=C(C(=C1[H])S(=O)(=O)N([H])([H])([H])([H])([H])([H])([H])([H])</chem>	17600705
25	25	350	Train	<chem>C1(N(C2=NC(=C(C(=N2)[H])([H])N(C3=C(C(=C(C(=C3C([H])([H])([H])([H])F([H])([H])([H])([H])=C(C(=C(C(=C1[H])S(=O)(=O)N([H])([H])([H])([H])([H])([H])([H])([H])</chem>	17600705
26	26	3000	Train	<chem>C1(N(C2=NC(=C(C(=N2)[H])([H])N(C3=C(C4=C(C(=C3[H])([H])N=C(S4)[H])([H])([H])([H])=C(C(=C(C(=C1[H])C(=O)N([H])([H])([H])([H])([H])([H])</chem>	17600705
27	27	16000	Train	<chem>C1(N(C2=NC(=C(C(=N2)[H])([H])N(C3=C(C4=C(C(=C3[H])([H])N=C(N4C([H])([H])([H])([H])([H])([H])([H])([H])=C(C(=C(C(=C1[H])C(=O)N([H])([H])([H])([H])([H])([H])</chem>	17600705
28	28	3000	Train	<chem>C1(N(C2=NC(=C(C(=N2)[H])([H])N(C3=C(C4=C(C(=C3[H])([H])N(N=C4[H])([H])([H])([H])([H])([H])([H])([H])=C(C(=C(C(=C1[H])C(=O)N([H])([H])([H])([H])([H])([H])</chem>	17600705
29	29	1800	Train	<chem>C1(N(C2=NC(=C(C(=N2)[H])([H])N(C3=C(C4=C(C(=C3[H])([H])N(C(=N4)[H])([H])([H])([H])([H])([H])([H])([H])=C(C(=C(C(=C1[H])C(=O)N([H])([H])([H])([H])([H])([H])</chem>	17600705
30	30	4400	Train	<chem>C1(N(C2=NC(=C(C(=N2)[H])([H])N(C3=C(C4=C(C(=C3[H])([H])N=NN4[H])([H])([H])([H])([H])([H])([H])([H])=C(C(=C(C(=C1[H])C(=O)N([H])([H])([H])([H])([H])([H])</chem>	17600705
31	31	8200	Train	<chem>C1(N(C2=NC(=C(C(=N2)[H])([H])N(C3=C(C4=C(C(=C3[H])([H])C(=NN4C([H])([H])([H])([H])([H])([H])([H])([H])=C(C(=C(C(=C1[H])C(=O)N([H])([H])([H])([H])([H])([H])</chem>	17600705
32	32	560	Train	<chem>C1(N(C2=NC(=C(C(=N2)[H])([H])N(C3=C4C(=C(C(=C3[H])([H])([H])([H])N=C(C(=C4[H])([H])([H])([H])([H])([H])([H])([H])=C(C(=C(C(=C1[H])C(=O)N([H])([H])([H])([H])([H])([H])</chem>	17600705
33	33	490	Train	<chem>C1(N(C2=NC(=C(C(=N2)[H])([H])N(C3=C4C(=C(C(=C3[H])([H])([H])([H])N=NN4[H])([H])([H])([H])([H])([H])([H])([H])=C(C(=C(C(=C1[H])C(=O)N([H])([H])([H])([H])([H])([H])</chem>	17600705
34	34	1400	Train	<chem>C1(N(C2=NC(=C(C(=N2)[H])([H])N(C3=C4C(=C(C(=C3[H])([H])([H])([H])C(=NN4[H])([H])([H])([H])([H])([H])([H])([H])=C(C(=C(C(=C1[H])C(=O)N([H])([H])([H])([H])([H])([H])</chem>	17600705
35	35	5600	Train	<chem>C1(N(C2=NC(=C(C(=N2)[H])([H])N(C3=C4C(=C(C(=C3[H])([H])([H])([H])N(C(=N4)C([H])([H])([H])([H])([H])([H])([H])([H])=C(C(=C(C(=C1[H])C(=O)N([H])([H])([H])([H])([H])([H])</chem>	17600705
36	36	100	Train	<chem>C1(N(C2=NC(=C(C(=N2)[H])([H])N(C3=C4C(=C(C(=C3[H])([H])([H])([H])N(N=C4[H])([H])([H])([H])([H])([H])([H])([H])=C(C(=C(C(=C1[H])C(=O)N([H])([H])([H])([H])([H])([H])</chem>	17600705
37	37	12	Train	<chem>C1(N(C2=NC(=C(C(=N2)[H])([H])N(C3=C4C(=C(C(=C3C([H])([H])([H])([H])([H])([H])([H])([H])N(N=C4[H])([H])([H])([H])([H])([H])([H])([H])=C(C(=C(C(=C1[H])C(=O)N([H])([H])([H])([H])([H])([H])</chem>	17600705

