

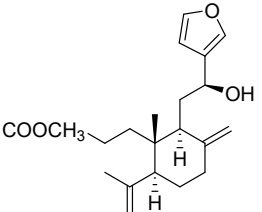
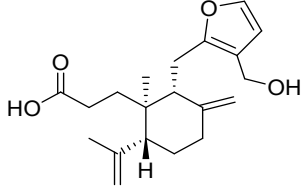
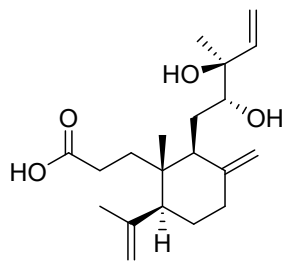
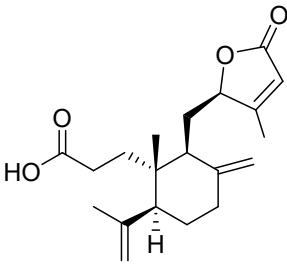
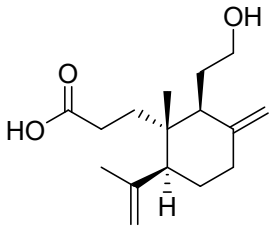
Supplementary Material

1 Supplementary Tables

Supplementary Table 1. 26 active compounds screened by ADMET.

Name	HIA_Level	Solubility_Level	BBB_Level	Hepatotoxic#MDpvalue	PPB#MDpvalue
Call.01	6.1261	-2.66647	0.92298	0.0236195	0.188386
Call.02	6.351489	-3.249539	0.92298	0.0736195	0.188386
Call.03	7.461447	-3.0706032	0.7414	1.13E-02	4.14E-01
Call.04	8.621673	-2.351489	0.792298	0.0407989	0.840937
Call.05	9.314668	-1.0461447	0.892298	6.91E-02	0.18738
Call.06	10.963553	-3.0621673	0.96977	3.48E-02	0.171421
Call.07	9.0054175	-2.314668	0.96977	0.0176202	0.958889
Call.08	7.70502	-1.963553	0.96977	0.174918	0.184752
Call.09	6.8858	-2.0954175	0.96977	6.91E-02	1.92E-01
Call.10	6.92212	-1.0770502	0.725769	3.48E-02	0.262356
Call.11	7.0179	-3.368858	0.8450619	0.0176518	0.302343
Call.12	6.18676	-2.0126922	0.9498591	2.27E-02	0.192752
Call.13	6.14747	-1.00170179	0.8174143	2.27E-02	0.192752
Call.14	6.590082	-0.000618676	0.881956	0.0933375	0.3533643
Call.15	6.144284	-6.14747E-05	0.934849	0.0560181	0.781068
Call.16	6.14747	-3.00590082	0.734849	0.0560181	0.781068
Call.17	7.203918	-1.0144284	0.964959	0.0560181	0.781068
Call.18	7.88545	-6.14747E-05	0.884849	0.0407773	0.333518
Call.19	8.144905	-0.0203918	0.934994	0.195732	0.316632
Call.20	9.216313	-0.000788545	0.986859	0.17015	0.166551
Call.21	9.63553	-0.00144905	0.870969	0.775741	0.400007
Call.22	9.54175	-0.00216313	0.804049	0.790305	0.441486
Call.23	7.70502	-0.00273525	0.88863	1.41E-02	1.83E-01
Call.24	6.368858	-0.249539	0.954849	3.48E-02	0.201421
Call.25	6.126922	-0.99715	0.82484	0.0407989	0.282328
Call.26	6.170179	-0.174298	0.835969	0.0162439	0.156471

Supplementary Table 2. The information of the potential active compounds in CN

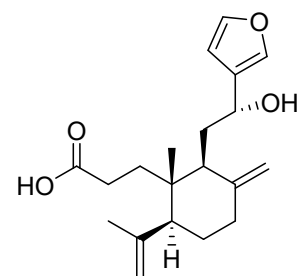
No.	Molecular Name	Molecular Formula	Molecular Weight	Structure
Call.1	Nudiflophenes C	C ₂₁ H ₃₀ O ₄	346.21	
Call.2	Ent-3,4-seco-16-hydroxy-12,15-epoxy-4(18),8(17),12,14-labdatrien-3-oic acid	C ₂₀ H ₂₈ O ₄	332.20	
Call.3	3,4-Seco-12R,13S-dihydroxy-4(18),8(17),14(15)-labdatrien-3-oic acid	C ₂₀ H ₃₂ O ₄	336.23	
Call.4	Callicarpaolide	C ₂₀ H ₂₈ O ₄	332.20	
Call.5	Callicarpic acid	C ₂₀ H ₂₈ O ₄	266.19	

Call.6

Callicarpic acid A

C₂₀H₂₈O₄

332.20

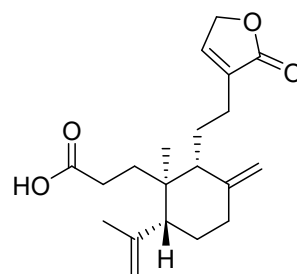


Call.7

Ent-3,4-seco-14-carbonyl-15,16-epoxy-4(18),8(17),13(14)-labdatrien-3-oic acid

C₂₀H₂₈O₄

332.20

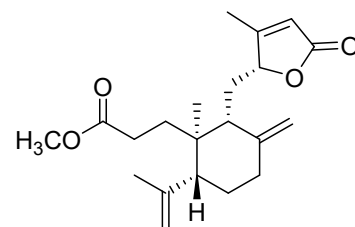


Call.8

Ent-3,4-seco-12R,15-epoxy-4(18),8(17),13-labdatrien-3-oic acid

C₂₁H₃₀O₄

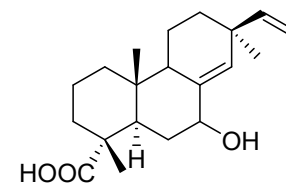
346.21



Call.9

7 α -Hydroxy sandaracopimaric acidC₂₀H₃₀O₃

318.22

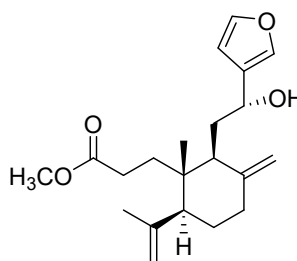


Call.10

Methylcallicarpate

C₂₁H₃₀O₄

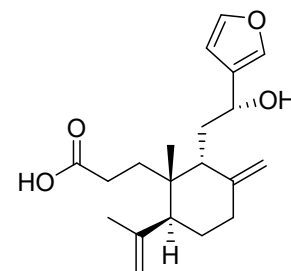
346.21



Call.11
Syn-3,4-seco-12R-
hydroxy-15,16-epoxy-
4(18),8(17),13
(16),14(15)-labdatetraen-
3-oic acid

C₂₀H₂₈O₄

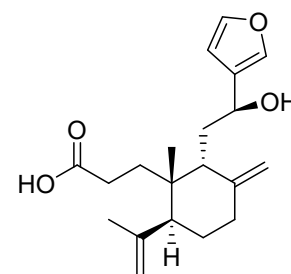
332.20



Call.12
Syn-3,4-seco-12S-
hydroxy-15,16-epoxy-
4(18),8(17),13
(16),14(15)-labdatetraen-
3-oic acid

C₂₀H₂₈O₄

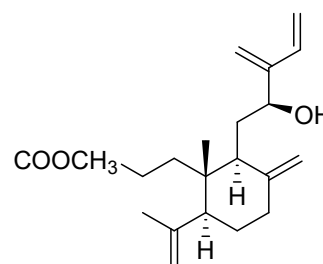
332.20



Call.13
Nudifflopenes A

C₂₁H₃₂O₃

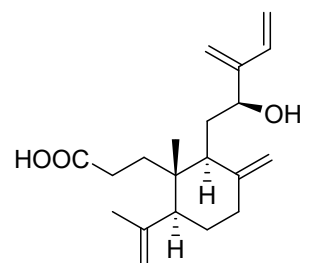
332.24



Call.14
Nudifflopenes B

C₂₀H₃₀O₃

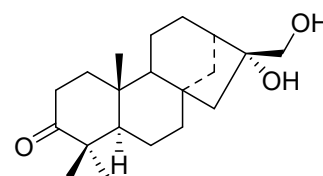
318.22



Call.15
16,17-Dihydroxy-3-O-
phylloladane

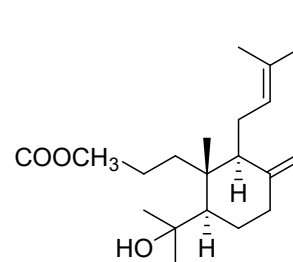
C₂₀H₃₂O₃

320.24

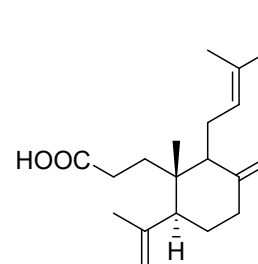


Call.16	Nudiflophenes D	C ₁₈ H ₃₀ O ₄	310.21	
Call.17	Nudiflophenes M	C ₂₁ H ₂₈ O ₄	344.20	
Call.18	Nudiflophenes F	C ₂₁ H ₃₀ O ₄	346.21	
Call.19	Nudiflophenes G	C ₂₁ H ₃₀ O ₄	346.21	
Call.20	Nudiflophenes H	C ₂₀ H ₂₆ O ₄	330.18	

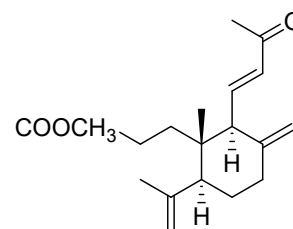
Call.21 Nudiflophenes I C₂₁H₃₄O₃ 334.25



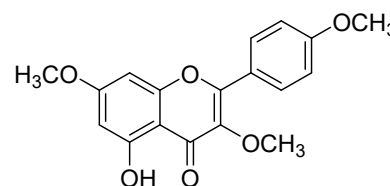
Call.22 Maravuic acid C₂₀H₃₀O₂ 302.22



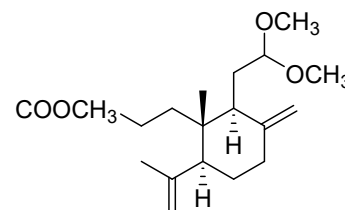
Call.23 Nudiflophenes J C₁₉H₂₈O₃ 304.20



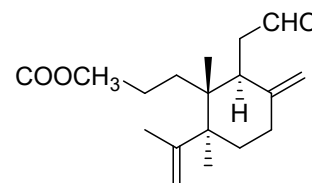
Call.24 5-Hydroxy-3,7,4'-trimethoxyflavone C₁₈H₁₆O₆ 328.09



Call.25 Nudiflophenes E C₁₉H₃₂O₄ 324.23



Call.26 Nudiflophenes L C₁₈H₂₈O₃ 292.20



Supplementary Table 3. Matching degree of the test set compounds predicted by the 10 pharmacophore models.

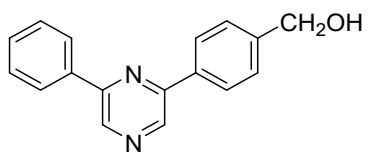
Compound NO	01	02	03	04	05	06	07	08	09	10
Int-01	3.9625	0.65945	1.18796	3.91613	3.19639	0.25925	1.2866	3.82654	0.43834	3.98766
Int-02	3.76901	1.67219	2.2906	3.93413	2.239	2.20579	1.2296	2.12656	2.25124	2.33345
Int-03	3.98766	1.44859	2.03972	3.80143	1.98309	2.17139	1.10379	1.91912	2.39457	2.28772
Int-04	2.30598	1.37146	0.102987	3.12501	2.33882	2.24423	3.24954	1.32004	0.977881	0.571884
Int-05	0.71122	3.40324	3.592	1.54423	2.79911	2.68718	0.42824	3.38519	2.43606	2.55252
Int-06	1.82858	0.49892	3.14941	3.85981	2.0913	2.5317	1.37478	3.28597	3.18324	2.92272
Int-07	1.72381	3.41422	2.62755	1.04385	1.23636	2.6167	1.73441	1.30561	3.92842	3.03839
Int-08	3.57653	2.41422	0.88855	1.74395	1.76555	2.3085	1.97925	2.20982	3.92842	2.12939
Int-09	0.90094	1.42402	2.62766	2.94485	2.05132	1.80937	2.33539	1.00561	0.82832	1.11837
Int-10	2.40709	1.80078	2.75906	3.19004	2.81573	2.67785	2.31056	3.1489	3.33791	3.4629
Int-11	3.16004	1.80112	3.15906	2.91195	2.1356	2.58894	2.23714	2.52124	2.99339	3.24629
Int-12	0.12409	1.57653	3.11555	2.72395	2.1728	2.38998	1.4288	2.84429	3.50444	3.15449
Int-13	3.11315	1.90094	3.21516	3.03933	2.53714	2.64252	3.01965	2.35095	3.43486	3.60293
Int-14	2.95962	1.78932	3.04463	3.21488	1.97068	2.18611	2.00125	1.16105	3.65769	3.41952
Int-15	3.79196	2.00706	2.90067	2.72521	3.11684	2.55888	2.94044	1.37123	2.75737	2.94364
Int-16	3.90969	3.35443	3.57514	3.64667	2.37883	2.60261	2.27789	3.38256	3.83756	3.6764
Int-17	1.61287	0.734	2.2414	2.46882	1.74164	2.28845	2.09611	1.10532	3.68493	2.08422
Int-18	1.93824	1.02205	1.33054	0.640566	2.34411	2.62902	2.31717	3.22565	3.50321	0.669873
Int-19	2.22125	0.778	2.12968	2.01839	1.86682	1.28808	2.01914	0.11238	1.9591	1.87823
Int-20	1.53505	1.129	1.32367	1.6572	2.6538	3.89412	0.8565	2.14176	3.56622	3.39215
Int-21	3.33508	3.47246	3.1939	2.22511	3.43879	3.34423	1.25054	2.39119	2.98892	1.5819
Int-22	3.40324	2.68718	0.42824	3.38519	2.43606	2.55252	2.71122	3.28597	1.54423	2.79911
Int-23	1.49892	2.5317	1.74478	3.592	3.18324	2.92272	1.82858	1.32004	3.85981	2.0913
Int-24	1.37146	2.24423	3.24954	3.1941	1.977881	0.57188	2.30598	3.38519	2.32501	3.93882
Int-25	3.40324	2.68718	0.42824	0.102987	2.43606	2.55252	0.71932	3.28597	1.54423	2.79911
Int-26	0.49892	2.5317	1.37478	3.592	3.18324	2.92272	3.82858	3.38519	3.85981	2.2313

Supplementary Table 4. Molecular docking results.

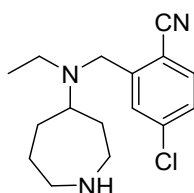
Compound	Protein	Libdock score	Binding energy (kcal/mol)	Ligand energy (kcal/mol)	Protein energy (kcal/mol)	Complex energy (kcal/mol)
ent 3,4-seco-16-hydroxy-12,15-epoxy-4(18),8(17),12,14-Labdatriene-3-oic acid	interleukin-6(6CQ5)	94.7441	-9.64	39.5681	-19026.6085	-19156.8426
Nudifllophenes C	interleukin-6(6CQ5)	96.3626	-9.84	34.2619	-19026.6085	-19346.6810
5-hydroxy-3,7,4'-trimethoxyflavone	interleukin-6(6CQ5)	96.9272	-11.64	49.6250	-19026.6085	-19415.2729
NudifllophenesM	interleukin-6(6CQ5)	95.9583	-3.27	62.3906	-19026.6085	-19156.6197

Supplementary Figures 1. Structural formulae of 26 training set compounds.

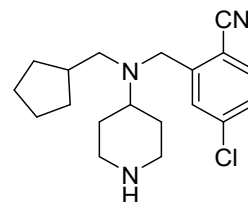
Supplementary Material



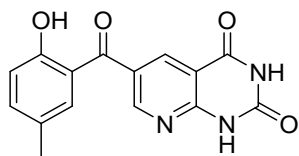
Int-1 IC₅₀=68μM



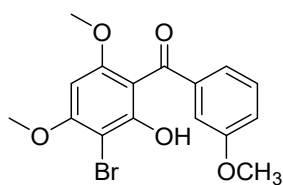
Int-2(IC₅₀=660nM)



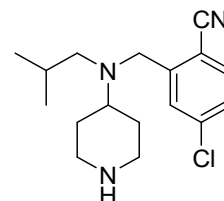
Int-3(IC₅₀=1500nM)



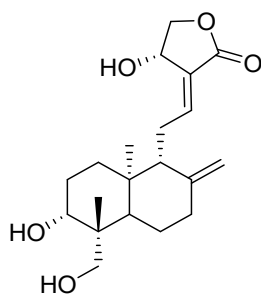
Int-4 IC₅₀=0.16μM



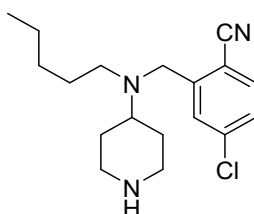
Int-5 IC₅₀=82μM



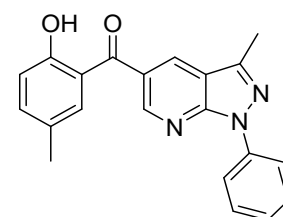
Int-6 (IC₅₀=32nM)



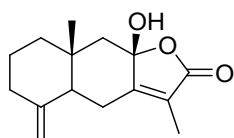
Int-7 IC₅₀=56μM



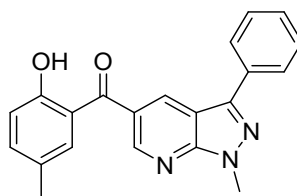
Int-8(IC₅₀=570nM)



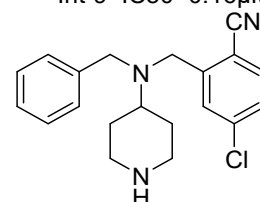
Int-9 IC₅₀=0.16μM



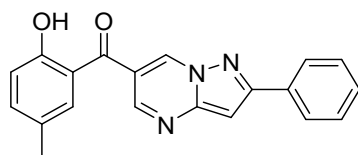
Int-10 IC₅₀=2μM



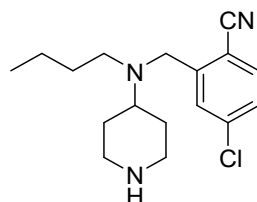
Int-11 IC₅₀=0.16μM



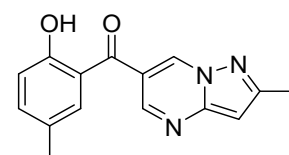
Int-12(IC₅₀=660nM)



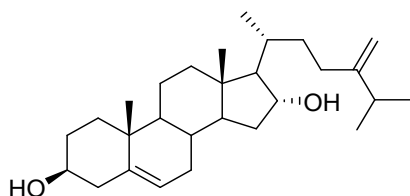
Int-13 IC₅₀=0.16μM



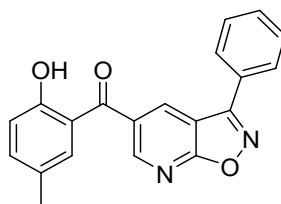
Int-14(IC₅₀=130nM)



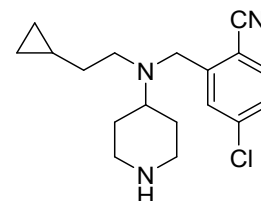
Int-15 IC₅₀=0.16μM



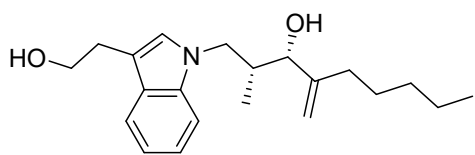
Int-16 IC₅₀=5.2μM



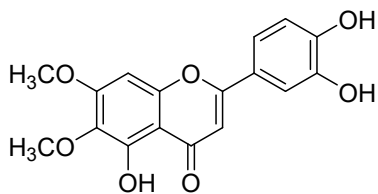
Int-17 IC₅₀=0.16μM



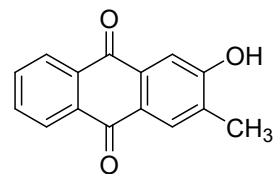
Int-18(IC₅₀=160nM)



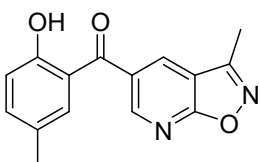
Int-19 IC₅₀=6.83μM



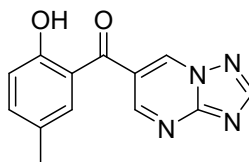
Int-20 IC₅₀=80μM



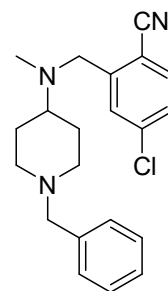
Int-21 IC₅₀=60μM



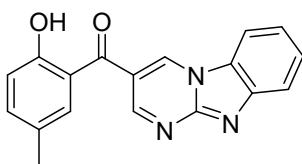
Int-22 IC₅₀=0.16μM



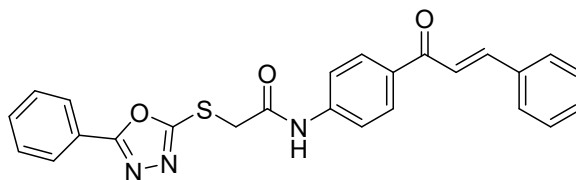
Int-23 IC₅₀=0.16μM



Int-24(IC₅₀=270nM)



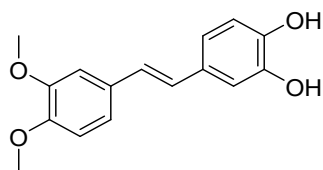
Int-25 IC₅₀=0.16μM



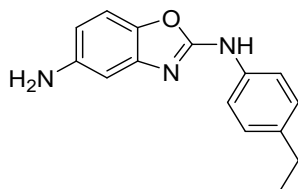
Int-26 IC₅₀=82μM

Supplementary Figures 2. Structural formulae of 26 test set compounds.

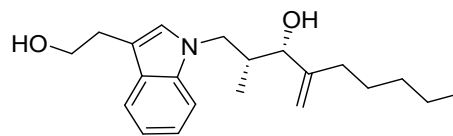
Supplementary Material



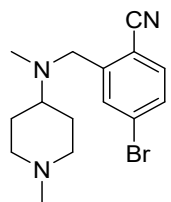
Nit-1 (IC₅₀=80nM)



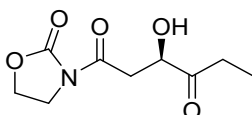
Nit-2 (IC₅₀=18.9nM)



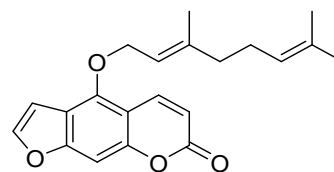
Nit-3 (IC₅₀=6.83μM)



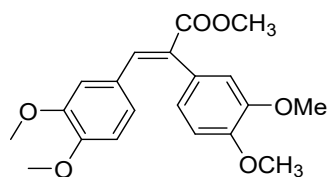
Nit-4 (IC₅₀=210nM)



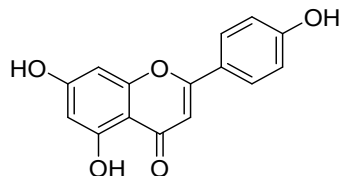
Nit-5 (IC₅₀=100μM)



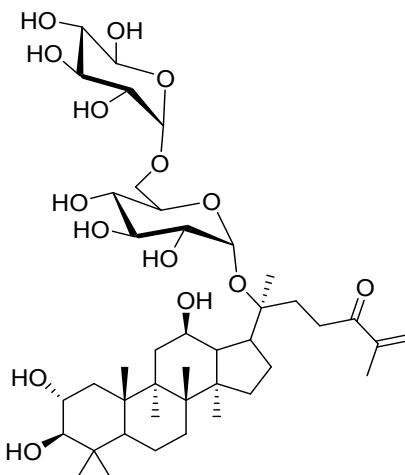
Nit-6 (IC₅₀=1400nM)



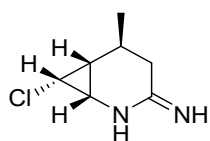
Nit-7 (IC₅₀=5050nM)



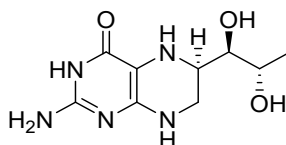
Nit-8 (IC₅₀=6860nM)



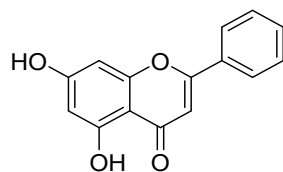
Nit-11 (IC₅₀=270nM)



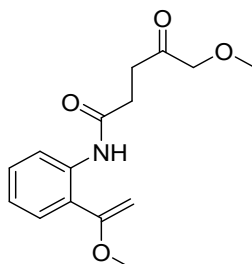
Nit-9 (IC₅₀=2300nM)



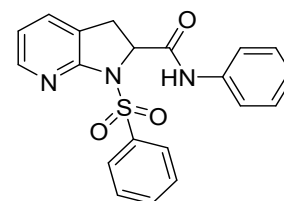
Nit-10 (IC₅₀=250nM)



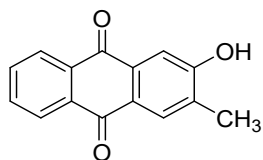
Nit-12 IC₅₀=56μM



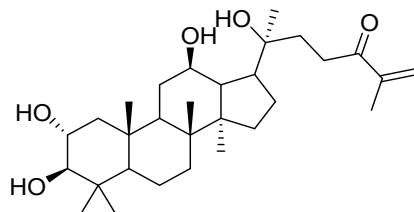
Nit-13 IC₅₀=10μM



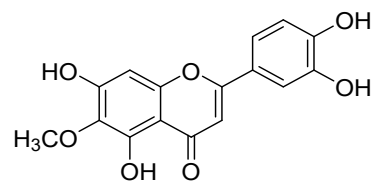
Nit-14 (IC₅₀=100nM)



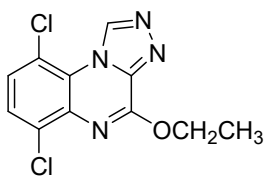
Nit-15 IC₅₀=73.8μM



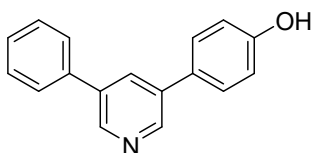
Nit-16 IC₅₀=0.59μM



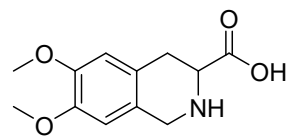
Nit-17 IC₅₀=68.8μM



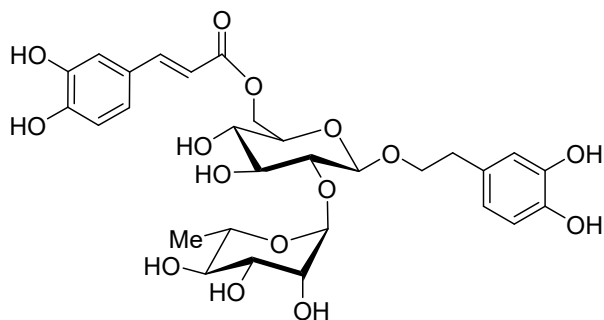
Nit-18 IC₅₀=46.4μM



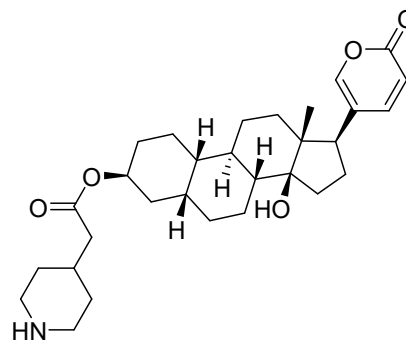
Nit-19 IC₅₀=73μM



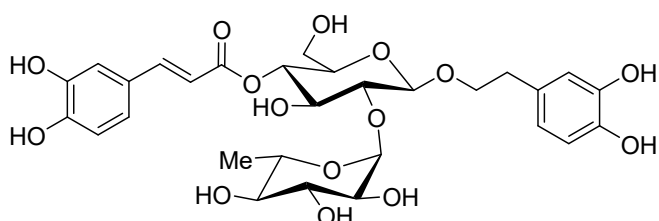
Nit-20 IC₅₀=10μM



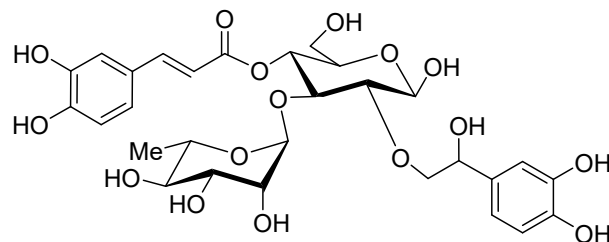
Nit-22



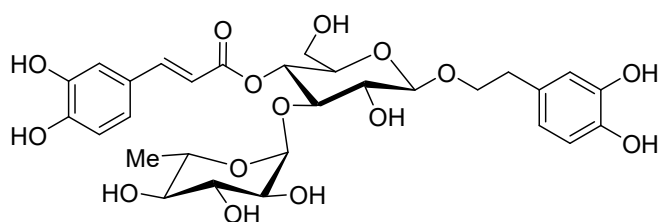
Nit-21 IC₅₀=82μM



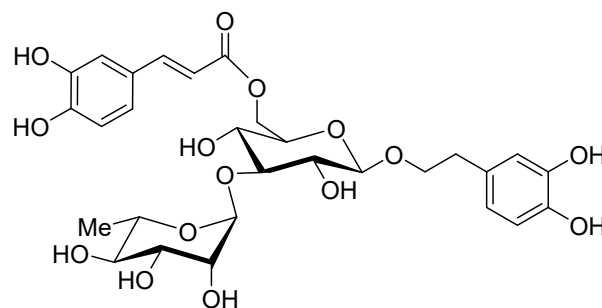
Nit-23



Nit-24



Nit-25



Nit-26