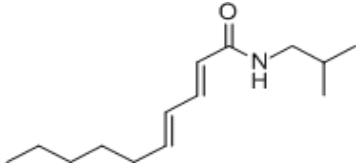
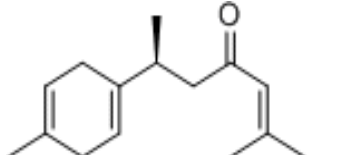
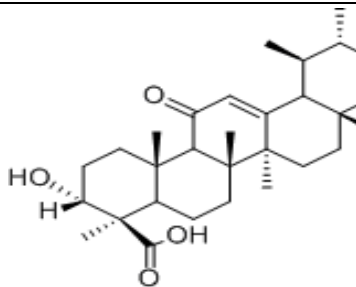
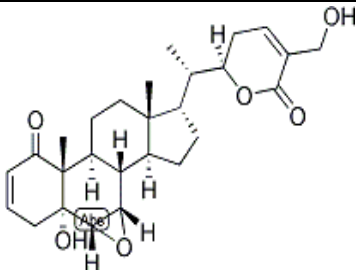
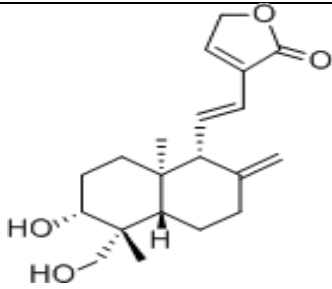
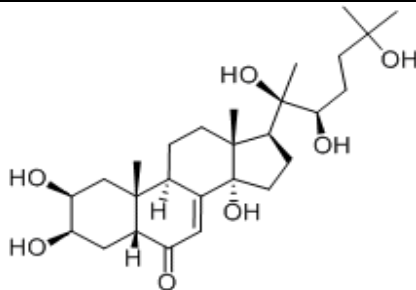
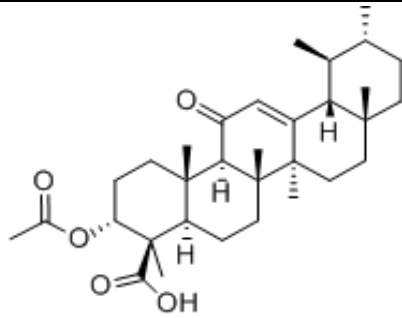
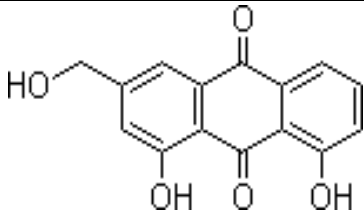
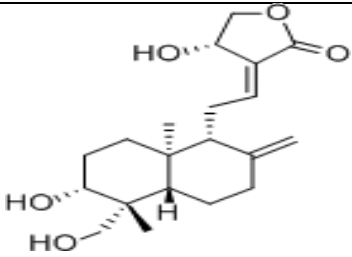
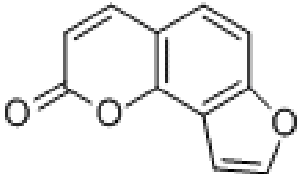
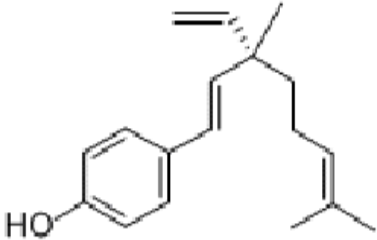
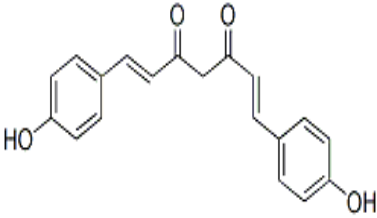
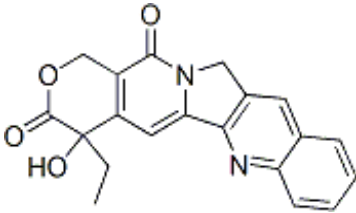
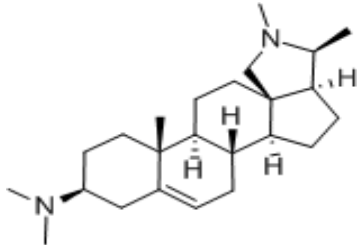
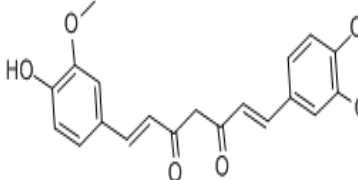
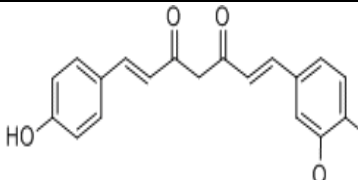
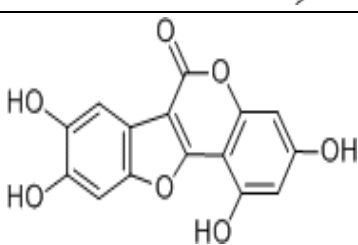
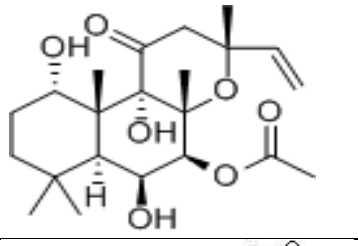
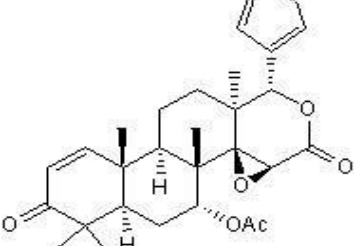


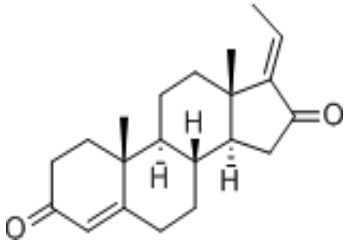
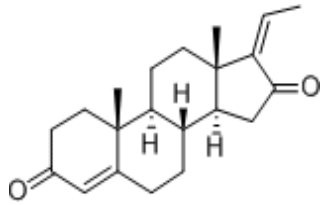
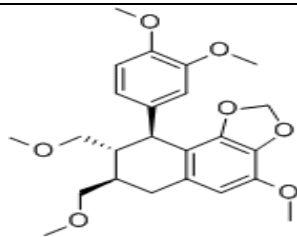
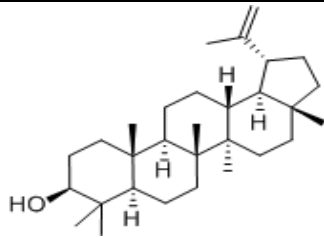
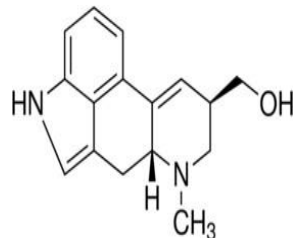
List of Phytochemicals with Structures and Activity

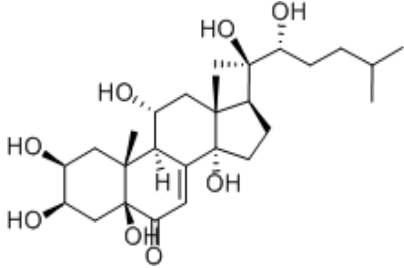
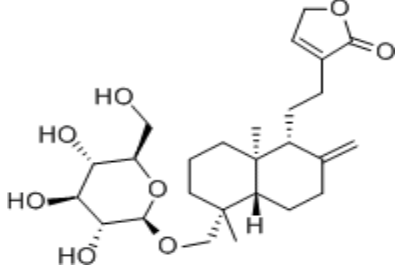
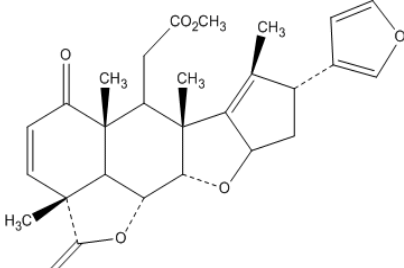
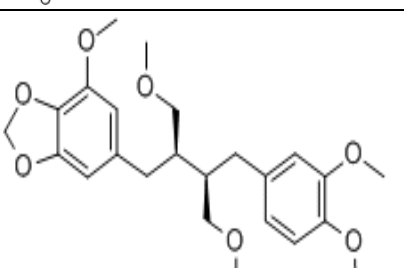
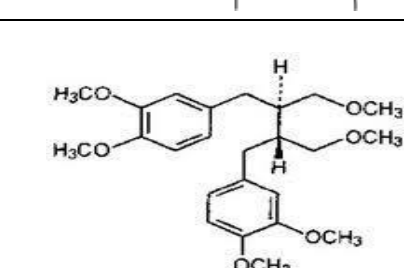
S. No	Name of the Phytochemical	Source/Host	Chemical Structure	CAS No.	Functional Activity
1	(2E,4E)-N-Isobutyl Decadienamide (Pellitorin)	Piper longum		18836-52-7	Anti cancer
2	(S)-(+)-Turmerone, Ar (Ar-Turmerone)	Curcuma longa		532-65-0	Anti-inflammatory, Anti-microbial, Anti-acne, Anti-aging
3	11-Keto β boswellic acid (KBA)	Boswellia serrata		17019-92-0	Anti-inflammatory, Anti-cancer, COX-2 inhibitor
4	12-Deoxy withastramonolide (27-Hydroxywithanolide B)	Withania somnifera		60124-17-6	Neuro degenerative

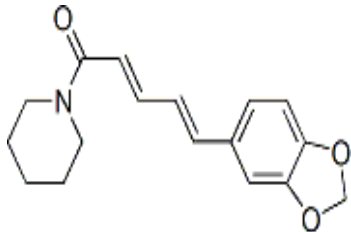
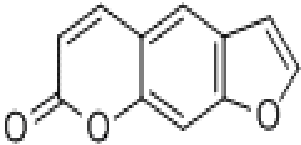
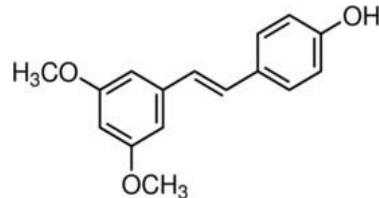
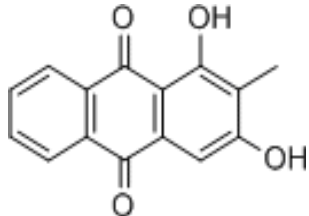
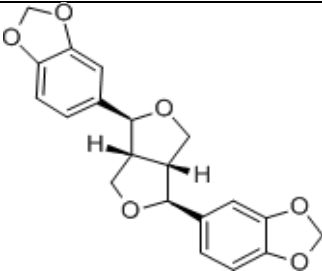
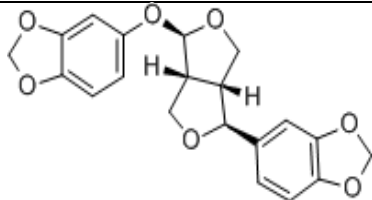
5	14-Deoxy-11,12-didehydro andrographolide	Withania somnifera		42895-58-9	Hepatoprotective, Anti-viral
6	20-Hydroxy ecdysone	Ipomoea hederacea		5289-74-7	Gene expression
7	3-Acetyl-11-keto β boswellic acid(AKBA)	Boswellia serrata		67416-61-9	Anti-inflammatory, Anti-cancer, COX-2 inhibitor
8	Acetyl boswellic acid, ($\alpha+\beta$)	Boswellia serrate		89913-60-0(a) 5968-70-7(b)	Anti-inflammatory
9	Aloe emodin	Aloe barbadensis		481-72-1	Anti-cancer, Anti-viral (HSV)

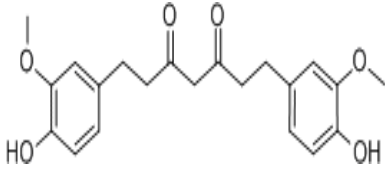
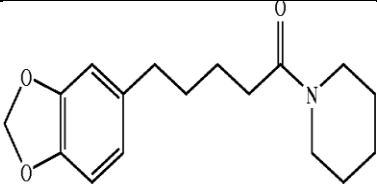
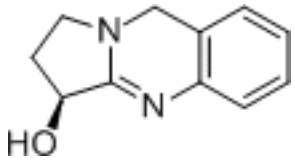
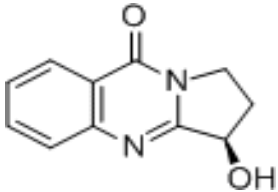
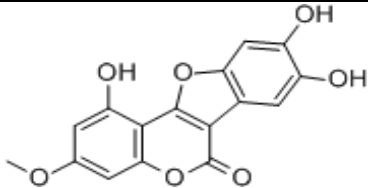
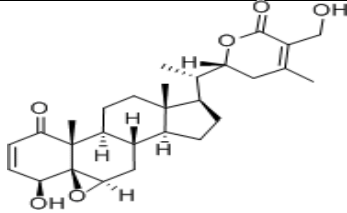
10	Andrographolide	Andrographis paniculata		5508-58-7	Hepatoprotective, Anti-viral
11	Bakuchicin (Angelicine)	Psoralea corylifolia		523-50-2	Antimicrobial, Anti-fungal and Anti-cancer
12	Bakuchiol	Psoralea corylifolia		10309-37-2	Anti-acne, Skin whitening
13	Bisdemethoxycurcumin	Curcuma longa		33171-05-0	Anti-oxidant, Anti-inflammatory
14	Boswellic acid, ($\alpha+\beta$)	Boswellia serrate		471-66-9(a) 631-69-6(b)	Anti-inflammatory
15	Camptothecine	Mappia foetida		7689-03-4	Anti-cancer

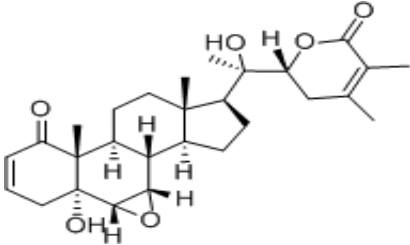
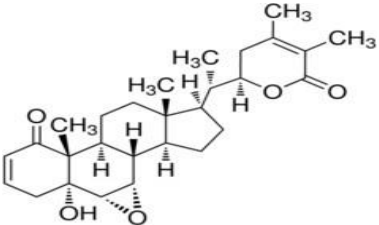
16	Conessine (Wrightine;Nervine;Roguessine)	Holarrhena antidyssentrica		546-06-5	Anti-histamine
17	Curcumin	Curcuma longa		458-37-7	Anti-oxidant, Anti-inflammatory
18	Demethoxycurcumin	Curcuma longa		22608-11-3	Anti-oxidant, Anti-inflammatory
19	Demethylwedelolactone	Eclipta alba		6468-55-9	Hepatoprotective, Anti-cancer
20	Forskolin (Coleonol; Colforsin)	Coleus forskohlii		66575-29-9	Skin conditioning, Anti-aging
21	Gedunin	Azadirachta indica		2753-30-2	Anti-cancer

22	Guggulsterone-E	Commiphora mukul		39025-24-6	Cholesterol lowering
23	Guggulsterone-Z	Commiphora mukul		39025-23-5	Cholesterol lowering
24	Guggulsterone (E+Z)	Commiphora mukul		39025-24-6(α) 39025-23-5(β)	Cholesterol lowering
25	Hypophyllanthin	Phyllanthus amarus		33676-00-5	Hepatoprotective
26	Lupeol (Clerodol;Fagarsterol)	Crataeva nurvala		545-47-1	Anti-cancer
27	Lysergol	Ipomoea hederacea		602-85-7	Serotonin receptor activity

28	Muristerone A (Mur A)	<i>Ipomoea hederacea</i>		38778-30-2	Gene expression
29	Neoandrographolide (Andrographolide, Neo)	<i>Andrographis paniculata</i>		27215-14-1	Hepatoprotective
30	Nimbolide	<i>Azadirachta indica</i>		25990-37-8	Anti-cancer
31	Niranthin	<i>Phyllanthus amarus</i>		50656-77-4	Hepatoprotective
32	Phyllanthin	<i>Phyllanthus amarus</i>		10351-88-9	Hepatoprotective

33	Piperine (N-Piperoylpiperidin)	Piper nigrum		94-62-2	Bio availability
34	Psoralen	Psoralea corylifolia		66-97-7	Vitiligo, psoriasis
35	Pterostilbene	Pterocarpus marsupium		537-42-8	Anti-oxidant
36	Rubiadin (2-Methylxanthopurpurin)	Rubia cordifolia		117-02-2	Hepatoprotective
37	Sesamin (Fagarol)	Sesamum indicum		607-80-7	Anti-oxidant, Anti-inflammatory, cholesterol lowering
38	Sesamolin	Sesamum indicum		526-07-8	Anti-oxidant, Anti-inflammatory, cholesterol lowering

39	Tetrahydrocurcumin	Curcuma longa		36062-04-1	Skin whitening, Anti-oxidant, Anti-aging, UV-B protectant
40	Tetrahydropiperin	Piper nigrum/Piper longum			Permeation enhancer
41	Turmerone, ($\alpha+\beta$)	Curcuma longa			Anti-inflammatory, Anti-microbial, Anti-acne, Anti-aging
42	Vasicine (Peganine)	Adhatoda vasica		50591-64-5	Bronchodilator activity, Anti-tubercular, Cytotoxic activity
43	Vasicinone	Adhatoda vasica		486-64-6	Bronchodilator activity, Anti-tubercular, Cytotoxic activity
44	Wedelolactone	Eclipta alba		524-12-9	Hepatoprotective, Anti-cancer
45	Withaferin A	Withania somnifera		5119-48-2	Anti-cancer, Neurodegenerative

46	Withanolide A	Withania somnifera		25990-37-8	Neuro degenerative
47	Withanolide B	Withania somnifera		2753-30-2	Neuro degenerative

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