

Dr. Duke's Phytochemical and Ethnobotanical Databases

List of Chemicals for Antileukemic

Chemical	Dosage
VATAMINE	micromolar
VATINE-A	micromolar
VATAMIDINE	micromolar
VATINE	micromolar
ARTONIN-M	LC50=7.9 ug/ml
ARTONIN-O	LC50=0.9 ug/ml
ARTOINDONESIANIN-L	LC50=0.6 ug/ml
ARTONIN-E	LC50=0.06 ug/ml
BULLATACIN	L1210 138% T/C at 50 ppb
ABRIN	ipr mus
BOSWELLIC-ACID	IC82=50 mg/kg ipr mus
BOSWELLIC-ACID	IC69=25 mg/kg ipr mus
ISOPTEROPODINE	IC54=25-35 uM/l
DAIDZEIN	IC50=>10 ug/ml
MESACONITINE	IC50=>10 ug/ml
LIMONIN	IC50=>10 ug/ml
NARINGENIN	IC50=>10 ug/ml
CATECHIN	IC50=>10 ug/ml
FLAVANOL	IC50=>10 ug/ml
EPICATECHIN	IC50=>10 ug/ml
ENTERODIOL	IC50=>10 ug/ml
QUERCETIN	IC50=>10 ug/ml
MITRAPHYLLINE	IC50=60-120 uM/l
SPECIOPHYLLINE	IC50=60 uM/l
12-ACETOXYHAWTRIWAIC-ACID-LACTONE	IC50=5.8 ug/ml
ISOMITRAPHYLLINE	IC50=45-60 uM/l
FLAVONE	IC50=4.4 ug/ml

Chemical	Dosage
LINALOOL	IC50=3.5-4.2 ug/ml
2-HYDROXY-8-METHOXY-2,3-DIHYDROISOFLAVONE	IC50=3.35 ug/ml
KAEMPFEROL	IC50=3.1 ug/ml
VANILLIC-ACID	IC50=25-56 ug/ml
AUCUBIN	IC50=25-56 ug/ml
FERULIC-ACID	IC50=25-56 ug/ml
P-COUMARIC-ACID	IC50=25-56 ug/ml
UNCARINE-F	IC50=22-29 uM/l
ASARININ	IC50=2.9 ug/ml
SESAMIN	IC50=2.9 ug/ml
URSOLIC-ACID	IC50=2.5-17.8 ug/ml
2-CYCLOHEXYL-6-HYDROXYCHROMONE	IC50=2.2 ug/ml
2-CYCLOHEXYL-7-METHOXYCHROMONE	IC50=2.05 ug/ml
SESELIN	IC50=17.3 ug/ml
QUERCETIN	IC50=10 uM
AMENTOFLAVONE	IC50=10 uM
13',118-BIAPIGENIN	IC50=10 uM
SCUTELLAREIN	IC50=10 uM
2-CYCLOHEXYL-7-HYDROXYCHROMONE	IC50=1.23 ug/ml
5-HYDROXY-FLAVONE	IC50=1.08 ug/ml
2-CYCLOHEXYL-5-HYDROXYCHROMONE	IC50=0.94 ug/ml
3-(3,3-DIMETHYLALLYL)-5-(3-ACETYL-2,4-DIHYDROXY-5-METHYL-6-METHOXYBENZYL)- PHLORACETOPHENONE	IC50=0.81 ug/ml
6-HYDROXY-FLAVONE	IC50=0.67 ug/ml
LIQUIRITIGENIN	IC50=0.29 ug/ml
BAICALEIN	IC50=0.26 ug/ml
7-HYDROXY-FLAVONE	IC50=0.213 ug/ml
WOGONIN	IC50=0.160 ug/ml

Chemical	Dosage
PSEUDOLARIC-ACID-A	IC50=0.16-1.19 ug/ml
ARCTIGENIN	IC50=0.067-0.53 ug/ml
MATAIRESINOL	IC50=0.041 ug/ml
HONOKIOL	IC50=0.034 ug/ml
ETOPOSIDE	IC50=0.014 ug/ml
GENISTEIN	IC50=0.010 ug/ml
PSDEUDOLARIC-ACID-B	IC50=.03-0.29 ug/ml
PLUMBAGIN	ED=4
NEOJUSTICIN-A	ED50=<1 ug/ml
MORINDAPARVIN-B	ED50=4.0 ug/ml
PIPLARTINE-DIMER-A	ED50=3.06ug/ml
VERBASCOSIDE	ED50=2.6 ug/ml
2-HYDROXY-METHYL-ANTHRAQUINONE	ED50=2.6 ug/ml
N-(3-METHOXY-4,5-METHYLENEDIOXYDIHYDROCINNAMOYL)-DELTA-3-PYRIDIN-2-ONE	ED50=2.21ug/ml
MORINDAPARVIN-A	ED50=1.85 ug/ml
ISOFRAXIDIN	ED50=1.7
DICHAMANETIN	ED50=1.4 ppb
N-(3,4,5-TRIMETHOXYCINNAMOYL)-DELTA-3-PYRIDIN-2-ONE	ED50=0.90ug/ml
N-(3,4-DIMETHOXYCINNAMOYL)-DELTA-3-PYRIDIN-2-ONE	ED50=0.82 ug/ml
1,3-DIHYDROXY-2-METHOXYMETHYLANTHRAQUINONE	ED50=0.62 ug/ml
N-(3-METHOXY-4,5-METHYLENEDIOXYCINNAMOYL)-DELTA-3-PYRIDIN-2-ONE	ED50=0.43ug/ml
BALANITIN	ED50=0.21-2.4 ug/ml
DIGIFERRUGINEOL	ED50=0.09 ug/ml
1-HYDROXY-2-HYDROXYMETHYLANTHRAQUINONE	ED50=0.09 ug/ml
DIGIFERRUGINOL	ED50=0.09 ug/ml
DIUVARETIN	ED50= 840 ppt
CHRYSIN	>genistein

Chemical	Dosage
GENISTEIN	>50 ug/ml (185 uM)
MAYTANSINE	6.25 mg/kg
MAYTENFOLIC-ACID	6.25 mg/kg
TRICIN	6-12 mg/kg
QUERCETIN	5.5-60 uM
PODOPHYLLOTOXIN	5.4 ppm
S-ALLYLMERCAPTOCYSTEINE	46-93 uM
AJOENE	40 uM
DEOXYPODOPHYLLOTOXIN	4.7 ppb
ALLICIN	31+ uM
NITIDINE	30-50 ppm
OLIVACINE	25-250 ppm
VINCRISTINE	25-150 ug/kg/week/ivn/man
LUTEOLIN	20-50 uM
APIGENIN	20-50 uM
PRETAZETTINE	20 mg/kg
CHAMANETIN	2.4 ppb
ISOCHAMANETIN	2.2 ppb
BAICALEIN	2 ug/ml
ECHITAMINE	16 mg/kg
RESVERATROL	15-30 uM
KAEMPFEROL-3-O-BETA-D-GLUCOPYRANOSIDE	12.5 mg/kg
BOSWELLIC-ACID	11-30 uM
VITAMIN-E	100-250 uM
TOCOPHEROL	100-250 uM
FAGARONINE	100 ppm
EICOSAPENTAENOIC-ACID	10 uM

Chemical	Dosage
MAYTENFOLIOL	10 mg/kg
1-HYDROXY-5-METHYLANTHRAQUINONE	10 mg/kg
ALIZARIN-1-METHYL-ETHER	10 mg/kg
ISOUVARETIN	1.9 ppb
SELENIUM	1.6 mg/kg ipr mus
HOMOHARRINGTONINE	1 ppm
YUANHUACINE	0.8 mg/kg
GNIDILATIDIN	0.8 mg/kg
10-HYDROXYCAMPTOTHECIN	0.5-4 mg/kg
CAMPTOTHECIN	0.5-4 mg/kg
ACRONYCINE	0.5-12 ug/ml
ARCTIGENIN	0.2-1.4 uM
LASIODIPLODIN	0.2 mg/kg
GENKWADAPHNIN	0.1-0.8 mg/kg
ELLIPTICINE	--
RICIN	--
ARISTOLOCHIC-ACID-I	--
GERANYL-GERANIOL	--
METHYL-GALLATE	--
1,11-DIMETHOXYCANTHIN-6-ONE	--
ACETYL-BETA-BOSWELLIC-ACID	--
PICEATANNOL	--
6-ALPHA-TIGLOYLOXYCHAPARRONE	--
BETULINIC-ACID	--
FARNESOL	--
SPRUCEANOL	--
ALLAMANDICIN	--

Chemical	Dosage
8-PRENYLNARINGENIN	--
HELIOTRINE	--
BRUCEANOL	--
L-ASPARAGINASE	--
CLEOMISCOSIN-A	--
13,18-DEHYDROGLAUCARUBINONE	--
AZELAIC-ACID	--
EMETINE	--
SAIKOSAPONIN	--
GLAUCARUBINONE	--
ASTRAGALIN	--
ISOHARRINGTONINE	--
TRACHELOGENIN	--
CANTHIN-6-ONE	--
MOLEPHANTININ	--
DEHYDROHELIOTRIDINE	--
PSOROSPERMIN	--
6-HYDROXYCRINAMINE	--
BIS-HOMODEOXYHARRINGTONINE	--
ALLAMDIN	--
(-)-EPICATECHIN	--
BRUCEANTINOL	--
ODORINOL	--
TASPINE	--
COLUBRINOL-ACETATE	--
15-ACETOXYRUDMOLLIN	--
DIPHYLLIN	--

Chemical	Dosage
CAFFEIC-ACID	--
ENT-CLERODANE	--
SERGEOLIDE	--
AGAVISIDE-A	--
GNIDITRIN	--
JUSTICIDIN	--
WITHAFERIN-A	--
CASTANOSPERMINE	--
MONTANIN	--
DEOXYHARRINGTONINE	--
9-HYDROXYELLIPTICINE	--
GABUNAMINE	--
TYLOCREBRINE	--
INDICINE-N-OXIDE	--
INGENOL-3,20-DIBENZOATE	--
BRUCEINE-D	--
CRINAMINE	--
2,6-DIMETHOXYBENZOQUINONE	--
4'-DEMETHYLDEOXYPODOPHYLLUM	--
SESBANINIDE	--
ALIZARIN	--
PUNICIC-ACID	--
HAEMANTHAMINE	--
BETA-SITOSTEROL-BETA-D-GLUCOSIDE	--
ACEMANNAN	--
CEPHALOTAXINE	--
11-HYDROXYCANTHIN-6-ONE	--

Chemical	Dosage
PROTOANEMONIN	--
ELABUNIN	--
RESERPINE	--
9-METHOXYELLIPTICINE	--
OLEANOLIC-ACID	--
TYLOPHORININE	--
ARISTOLACTAM-IA	--
ISOACTEOSIDE	--
CINNAMALDEHYDE	--
BRUSATOL	--
(Z)-1,8-PENTADECADIENE	--
D-GUATAMBUINE	--
PSEUDOHYPERICIN	--
6-ALPHA-TIGLOYLOXYCHAPARRINE	--
SPECTABILINE	--
ALKANNIN	--
LAPACHOL	--
VINROSIDINE	--
BRUCEANIC-ACID-D	--
(-)-EPIGALLOCATECHIN-GALLATE	--
CICUTOXIN	--
12ALPHA-HYDROXYAMORSTATIN	--
DIGALLIC-ACID	--
EMARGINATINE-A	--
RUDMOLLIN	--
ACETYLCARANINE	--
CURCUMIN	--



Chemical	Dosage
MEZEREIN	--
DAUCOSTEROL	--
PINOCEMBRIN	--
PSEUDOLYCORINE	--
THYMIDINE	--
ALLAMANDIN	--
RUBROFUSARIN	--
BRUCEANTIN	--
(+)-NORTRACHELOGENIN	--
COLCHICINE	--
14,15-BETA-EPOXPRIEURIANINE	--
PROTOCATECHUIC-ACID	--
EMODIN	--
ACTEOSIDE	--
CASIMIROEDINE	--
MONOCROTALINE	--
DEMECOLCINE	--
QUASSIMARIN	--
FLOSSONOL	--
TRIPTOLIDE	--
ALOE-EMODIN	--
HYPERICIN	--
(-)-ODORINOL	--
BRUCEINE	--
LYCOBETAINE	--
CORNIGERINE	--
15-BETA-HYDROXYWITHAFERIN-A	--

Chemical	Dosage
ALLAMCIN	--
DIRCIN	--
SESBANINE	--
AILANTHINONE	--
GONIOTHALAMICIN	--
VINBLASTINE	--
BETA-SITOSTEROL	--
LUCIDIN-METHYL-ETHER	--
CEPHALOMANNINE	--
11-DEOXOCUCURBITACIN-I	--
DEOXYNOJIRIMYCIN	--
3-DESMETHYLCOLCHICINE	--
9-METHOXYCAMPTOTHECIN	--
GABUNINE	--
TYLOPHORINE	--
ANOPTERINE	--
INDIRUBIN	--
BRUCEOSIDE	--
CUCURBITACIN-I	--
NORMAYTANCYPRINE	--
ETOPOSIDE	--
SIMALIKALACTONE-D	--
HAINANOLIDE	--
VINDESINE	--
BROMELAIN	--
AMBROSANOLIDES	--
12-BETA-HYDROXYWITHAFERIN-A	--

Chemical	Dosage
HARRINGTONINE	(2 ppm), 2-4 mg