

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in Petasites japonicus

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	FUKINOLIDE	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	6-ANGELYLFURANOFUKINOL	Rhizome				Chemical Constituents of Oriental Herbs (3 diff. books)
0	PETASITININE	Shoot				Chemical Constituents of Oriental Herbs (3 diff. books)
0	NEOPETASITININE	Shoot				Chemical Constituents of Oriental Herbs (3 diff. books)
0	3-BETA-HYDROXY-EREMOPHIL-7(11)-EN-12,8-BETA-OLIDE	Rhizome		0.9		--
0	EREMOPETASITENIN-A-1	Rhizome		16.0		--
0	S-PETASIN	Flower				--
0	BAKKENOLIDE-B	Bud				Chemical Constituents of Oriental Herbs (3 diff. books)
0	FUKINANOLIDE	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	6-ACETYLFURANOFUKINOL	Rhizome				Chemical Constituents of Oriental Herbs (3 diff. books)
0	S-JAPONIN	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	PETASITIN	Pt				Chemical Constituents of Oriental Herbs (3 diff. books)
0	6-BETA-ANGELOYL-OXY-3-BETA-8-DIHYDROXYEREMOPHILEN OLIDE	Rhizome		50.0		--
0	3-BETA-HYDROXY-6-BETA-METHOXYEREMOPHIL-7(11)-EN-12,8-BETA-OLIDE	Rhizome	0.8	3.0		--
0	EREMOPETASINORONE-B	Rhizome		0.3		--
0	S-ISOPETASIN	Flower				--
0	FUKIIC-ACID	Flower				Chemical Constituents of Oriental Herbs (3 diff. books)
0	S-FURANOPETASITIN	Rhizome				Chemical Constituents of Oriental Herbs (3 diff. books)
0	PETASITALONE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	6-BETA-ANGELOYL-OXY-3-BETA-8-ALPHA-DIHYDROXYEREMOPHILEN OLIDE	Rhizome		50.0		--
0	3-BETA-HYDROXY-6-BETA-8-ALPHA-DIMETHOXYEREMOPHIL-7(11)-EN-12,8-BETA-OLIDE	Rhizome		683.0		--
0	EREMOPETASINORONE-A	Rhizome		1.06		--
0	PETASITIN	Flower		190.0		--
0	ASH	Pt	14600.0	26545.0	-1.3494322568823325	USDA's Ag Handbook 8 and sequelae)
0	WATER	Pt		945000.0	-1.0	USDA's Ag Handbook 8 and sequelae)
0	S-FUKINOLIDE	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	PETASINOSIDE	Plant		5.0		--
0	2-BETA-HYDROXYEREMOPHIL-7(11)-EN-8-BETA-12-OLIDE	Rhizome		0.6		--
0	3-BETA-HYDROXY-6-ALPHA-METHOXYEREMOPHIL-7(11)-EN-12,8-BETA-OLIDE	Rhizome		0.8		--
0	EREMOPETASINOROL	Rhizome		3.6		--
0	INTEGERRIME	Plant				Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
0	TITANIUM	Plant	170.0	200.0	0.4093608814549928	Chem. & Pharm. Bull. 38: 2205.
0	FUKINOLIDE	Flower				--
0	RUBIDIUM	Plant	18.0	26.0	0.20941936332491162	Chem. & Pharm. Bull. 38: 2205.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	PETASINOLIDES	Plant				Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
0	3-BETA-HYDROXY-6-BETA-TIGLOYL-OXYEREMOPHIL-7(11)-EN-8-BETA-12-OLIDE	Rhizome		7.3		--
0	FAT	Pt	400.0	7270.0	-1.0	USDA's Ag Handbook 8 and sequelae)
0	3-BETA-8-BETA-DIHYDROXY-6-BETA-TIGLOYL-OXYEREMOPHIL-7(11)-EN-12,8-BETA-OLIDE	Rhizome		2.8		--
0	EREMOPETASIDIONE	Rhizome		1.7		--
0	PROTEIN	Pt	3900.0	70900.0	-1.0944382007205662	USDA's Ag Handbook 8 and sequelae)
0	FUROEREMOPHILONE	Plant				Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
0	FUKINANOLIDE	Flower				--
0	PETASININE	Plant		8.0		--
0	3-BETA-8-ALPHA-DIHYDROXY-6-BETA-METHOXYEREMOPHIL-7(11)-EN-8-BETA-12-OLIDE	Rhizome		3.5		--
0	EREMOPHILINE	Rhizome				Chemical Constituents of Oriental Herbs (3 diff. books)
0	LIGULARONE	Rhizome				Chemical Constituents of Oriental Herbs (3 diff. books)
0	3-BETA-8-ALPHA-DIHYDROXY-6-BETA-TIGLOYL-OXYEREMOPHIL-7(11)-EN-12,8-BETA-OLIDE	Rhizome		2.8		--
0	BROMINE	Plant	18.0	40.0	-0.002388622096911931	Chem. & Pharm. Bull. 38: 2205.
0	EPOXYEREMOPETASINOROL	Rhizome		0.3		--
0	FURINOTOXIN	Shoot				Chemical Constituents of Oriental Herbs (3 diff. books)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	PETASIPHENONE	Rhizome		6.0		--
0	PETASALBIN-METHYL-ETHER	Rhizome				Chemical Constituents of Oriental Herbs (3 diff. books)
0	8-BETA-HYDROXY-3-OXOEREMOPHIL-7(11)-EN-12,8-BETA-OLIDE	Rhizome		0.4		--
0	EREMOFUKINONE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	EREMOSULPHOXINOLIDE-B	Rhizome		1.5		--
0	LEAD	Plant				Chem. & Pharm. Bull. 38: 2205.
0	3-BETA-6-BETA-DIHYDROXYEREMOPHIL-7(11)-EN-12,8-ALPHA-OLIDE	Rhizome		0.7		--
0	BAKKENOLIDE-B	Rhizome				--
0	FURANOJAPONIN	Rhizome				Chemical Constituents of Oriental Herbs (3 diff. books)
0	PETASIPHENOL	Rhizome		3.6		--
0	ALPHA-SANTALENE	Rhizome				Chemical Constituents of Oriental Herbs (3 diff. books)
0	STRONTIUM	Plant	36.0	160.0	0.05749817880907902	Chem. & Pharm. Bull. 38: 2205.
0	PETASALBIN	Rhizome				Chemical Constituents of Oriental Herbs (3 diff. books)
0	6-BETA-EPOXY-ANGELOYL-OXY-3-BETA-HYDROXYEREMOPHIL-7(11)-EN-12,8-BETA-OLIDE	Rhizome		0.2		--
0	EREMOSULPHOXINOLIDE-A	Rhizome		1.2		--
0	KILOCALORIES	Pt	140.0	2545.0		USDA's Ag Handbook 8 and sequela)
0	URIDINE	Rhizome		0.8	-0.9999999999999998	--
0	6-BETA-ANGELOYL-OXY-8-BETA-HYDROXY-3-OXOEREMOPHIL-7(11)-EN-12,8-ALPHA-OLIDE	Rhizome		1.7		--
0	FURANOFUKINOL	Rhizome				--
0	ALBOPETASIN	Rhizome				Chemical Constituents of Oriental Herbs (3 diff. books)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	6-BETA-ANGELOYL-OXY-3-BETA-9-BETA-DIHYDROXYEREMOPHIL-7(11)-EN-12,8-BETA-OLIDE	Rhizome		2.0		--
0	EREMOPETASITENIN-B-2	Rhizome		5.0		--
0	BARIUM	Plant	40.0	50.0	-0.03959910833711677	Chem. & Pharm. Bull. 38: 2205.
0	6-BETA-ANGELOYL-OXY-3-BETA-15-EPOXY-9-BETA-15(R)-DIHYDROXYEREMOPHIL-7(11)-EN-12,8-ALPHA-OLIDE	Rhizome		0.2		--
0	FUKINOTOXIN	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	NEOPETASITENINE	Plant				--
0	9-ACETOXYFUKINANOLIDE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	6-BETA-ANGELOYL-OXY-3-BETA-9-ALPHA-DIHYDROXYEREMOPHIL-7(11)-EN-12,8-BETA-OLIDE	Rhizome		4.0		--
0	EREMOPETASITENIN-B-1	Rhizome		5.0		--
0	ISOPETASOSIDE	Flower		32.0		--
0	SECO-EREMOPETITOLIDE-A	Rhizome		0.9		--
0	BAKKENOLIDE-D	Bud				Chemical Constituents of Oriental Herbs (3 diff. books)
0	6-BETA-8-BETA-DIHYDROXYEREMOPHIL-7(11)-EN-12,8-ALPHA-OLIDE	Rhizome		1.8		--
0	FUKINONE	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	NEOPETASITENINE	Flower		60.0		--
0	6-HYDROXYEREMOPHILENOLIDE	Rhizome				Chemical Constituents of Oriental Herbs (3 diff. books)
0	PETASOSIDE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	6-BETA-ANGELOYL-OXY-3-BETA-8-BETA-9-BETA-TRIHIDROXYEREMOPHIL-7(11)-EN-12,8-BETA-OLIDE	Rhizome		1.2		--
0	CARBOHYDRATES	Pt	19000.0	656360.0	-0.9732767393540686	--
0	EREMOPETASITENIN-A-2	Rhizome		14.0		--
0	SECO-EREMOPETASITOLIDE-B	Rhizome		1.3		--
0	BAKKENOLIDE-C	Bud				Chemical Constituents of Oriental Herbs (3 diff. books)
0	6-BETA-(3'-CHLORO-2'-HYDROXY-2'-METHYL-BUTYROYL-OXY)-3-BETA-8-BETA-DIHYDROXYEREMOPHIL-7(11)-EN-12,8-ALPHA-OLIDE	Rhizome		0.9		--
1	PETASITENINE	Plant		97.0		--
1	CAPROIC-ACID	Flower				Chemical Constituents of Oriental Herbs (3 diff. books)
1	PETASITENINE	Flower		56.0		--
1	PETASITENINE	Shoot				--
1	ANGELIC-ACID	Bud				Chemical Constituents of Oriental Herbs (3 diff. books)
1	PETASIN	Flower				--
1	SODIUM	Pt	70.0	1270.0	-0.6795501299617708	USDA's Ag Handbook 8 and sequelae)
1	SENKIRKINE	Flower	1.0	2.0		--
1	SENKIRKINE	Shoot		1.0		Chemical Constituents of Oriental Herbs (3 diff. books)
1	SENKIRKINE	Rhizome		26.0		Chemical Constituents of Oriental Herbs (3 diff. books)
2	MOLYBDENUM	Plant				Chem. & Pharm. Bull. 38: 2205.
2	BUTYRALDEHYDE	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	ARSENIC	Plant				Chem. & Pharm. Bull. 38: 2205.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	SENECIONINE	Plant				Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
3	MUCILAGE	Root				Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
3	NICKEL	Plant				Chem. & Pharm. Bull. 38: 2205.
4	PHOSPHORUS	Pt	120.0	2180.0	-1.0071283821276042	USDA's Ag Handbook 8 and sequelae)
4	PHOSPHORUS	Plant	400.0	1800.0	-0.8595158871407913	Chem. & Pharm. Bull. 38: 2205.
5	CAPRYLIC-ACID	Flower				Chemical Constituents of Oriental Herbs (3 diff. books)
5	ISOPETASIN	Rhizome				--
5	BAKKENOLIDE-A	Bud				Chemical Constituents of Oriental Herbs (3 diff. books)
5	ISOPETASIN	Flower				--
5	ISOPETASIN	Plant		160.0		--
6	IRON	Plant	2000.0	2100.0	1.7347317086076486	Chem. & Pharm. Bull. 38: 2205.
6	IRON	Pt	1.0	18.0	-1.1482846693017026	USDA's Ag Handbook 8 and sequelae)
7	CHLORINE	Plant	10000.0	11000.0	1.0564720140341104	Chem. & Pharm. Bull. 38: 2205.
12	IODINE	Plant				Chem. & Pharm. Bull. 38: 2205.
12	COPPER	Plant	15.0	16.0	0.21963694313863044	Chem. & Pharm. Bull. 38: 2205.
14	MANGANESE	Plant	70.0	100.0	0.021813677839542838	Chem. & Pharm. Bull. 38: 2205.
14	POTASSIUM	Pt	6550.0	11900.0	-1.3989013675761495	USDA's Ag Handbook 8 and sequelae)
14	SULFUR	Plant	6500.0	7300.0	1.4633479486367877	Chem. & Pharm. Bull. 38: 2205.
14	POTASSIUM	Plant	35000.0	42000.0	1.408923511049804	Chem. & Pharm. Bull. 38: 2205.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
15	FIBER	Pt	13000.0	236360.0	1.3807004629607251	USDA's Ag Handbook 8 and sequelae)
15	RIBOFLAVIN	Pt	0.2	3.6	-1.0780530559396932	USDA's Ag Handbook 8 and sequelae)
19	INULIN	Root		170000.0	-0.5352651016442753	--
23	MELATONIN	Shoot				Hattori, A., et. al. 1995. Identification of Melatonin in Plants and its Effects on Plasma Melatonin Levels and Binding to Melatonin Receptors in Vertebrates. Biochem. Mol. Biol. Int., 35(3): 627-634.
24	PECTIN	Root				Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
24	CHROMIUM	Plant	20.0	23.0	1.2808381056051297	Chem. & Pharm. Bull. 38: 2205.
28	CALCIUM	Pt	1030.0	18725.0	0.7484589275751646	USDA's Ag Handbook 8 and sequelae)
28	CALCIUM	Plant	13000.0	14000.0	0.04392125722715171	Chem. & Pharm. Bull. 38: 2205.
31	THIAMIN	Pt	0.2	3.6	-1.184737408199613	USDA's Ag Handbook 8 and sequelae)
39	NIACIN	Pt	2.0	36.0	-1.4142135623730951	USDA's Ag Handbook 8 and sequelae)
47	BETA-SITOSTEROL	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
53	BETA-CAROTENE	Pt	0.03	0.5	-0.7935841132399388	USDA's Ag Handbook 8 and sequelae)
65	MAGNESIUM	Pt	140.0	2545.0	1.0	USDA's Ag Handbook 8 and sequelae)
75	KAEMPFEROL	Plant				Chemical Constituents of Oriental Herbs (3 diff. books)
77	ZINC	Plant	21.0	60.0	0.0774856047459278	Chem. & Pharm. Bull. 38: 2205.
112	ASCORBIC-ACID	Pt	315.0	5725.0	1.657820760823633	USDA's Ag Handbook 8 and sequelae)