

List of All Chemicals

P Piper methysticum (Piperaceae)

Common name(s)

Kava-Kava

How used

Medicinal

*Unless otherwise noted all references are to Duke, James A. 1992. Handbook of phytochemical constituents of GRAS herbs and other economic plants. Boca Raton, FL. CRC Press.

Chemical	Part <input type="button" value="All"/>	Low PPM	High PPM	StdDev	*Reference
(+)-5-6-7-8-TETRAHYDROYANGONIN	Rhizome	--	3.0		*
11,12-DIMETHOXYDIHYDROKAWAIN	Rhizome	--	--		*
11,12-DIMETHOXYDIHYDROKAWAIN	Root	--	22.0		*
11,12-DIMETHOXYDIHYDROKAWAIN	Plant	--	--		*
11-HYDROXY-12-METHOXYDIHYDROKAWAIN	Root	--	9.0		*
11-HYDROXY-12-METHOXYDIHYDROKAWAIN	Plant	--	--		*
11-HYDROXY-YANGONIN	Root	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
11-METHOXY-12-HYDROXY-DEHYDROKAWAIN	Root	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
11-METHOXYNORYANGONIN	Rhizome	--	--		*
11-METHOXYNORYANGONIN	Plant	--	--		*
11-METHOXY YANGONIN	Rhizome	--	--		*
11-METHOXY YANGONIN	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2',4'-DIMETHYLCHALCONARINGENIN	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2-METHOXYCINNAMIC-ACID-PYRROLIDIDE	Rhizome	--	--		Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
3,4-(METHYLENE-DIOXY)CINNAMYLIDENACETOL	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
3,4-METHYLENE-DIOXYCINNAMIC-ACID-BORNYL-ESTER	Root	--	--		*
Activities (3)					
Antiinflammatory					
COX-1-Inhibitor IC16=100 ug/ml					
COX-2-Inhibitor IC18=100 ug/ml					
3-4-METHYLENEDIOXY-CINNAMYLIDENEACETONE	Resin, Exudate, Sap	--	25450.0		*

4-OXO-N-NANANOIC-ACID	Rhizome	--	--		Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
5,6,7,8-TETRAHYDROYANGONIN	Plant	--	--		J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
5,6,7,8-TETRAHYDROYANGONIN	Rhizome	--	--		*
5,6-DEHYDROKAWAIN	Plant	--	--		Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Activities (5)					
Anesthetic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.				
Anticonvulsant	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.				
Antiplatelet					
Antithromboxane					
Antiulcer					
5,6-DEHYDROKAWAIN	Leaf	--	--		*
Activities (5)					
Anesthetic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.				
Anticonvulsant	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.				
Antiplatelet					
Antithromboxane					
Antiulcer					
5,6-DIHYDROYANGONIN	Root	--	--		*
5,7-DIMETHOXYFLAVONE	Root	--	40.0		*
Activities (1)					
Antiinflammatory					
5-DIHYDROYANGONIN	Plant	--	--		*
7,8-DIHYDROYANGONIN	Root	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
7-8-DIHYDROKAWAIN	Plant	--	--		*
7-8-DIHYDROKAWAIN	Rhizome	--	--		*
ANISIC-ACID	Rhizome	--	--		Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
Activities (6)					
Antibacterial MBC=800 ug/ml					
Antirheumatic					
Antisalmonella MIC=800 ug/ml					
Antiseptic 800 ug/ml					
Pesticide					
Tyrosinase-Inhibitor ID50=680 uM					
ASH	Root	--	32000.0	-1.02	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
BENZOIC-ACID	Plant	--	--		CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

Activities (20)

Allergenic	Martindale's 28th
Anesthetic	
Antibacterial 33-1,250 ppm	
Antibacterial MBC=800 ug/ml	
Antiotitic	Martindale's 28th
Antipyretic	
Antisalmonella MIC=800 ug/ml	
Antiseptic 800 ug/ml	
Antiyeast MFC=1,600 ug/ml	
Choleretic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Expectorant	
FLavor FEMA 250	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry
Fungicide MFC=1,600 ug/ml	
Insectifuge	Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.
Pesticide	
Phytoalexin	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Tyrosinase-Inhibitor ID50=710 uM	
Tyrosinase-Inhibitor ID50=640 uM	
Uricosuric	
Vulnerary	

BENZOIC-ACID	Rhizome	--	--	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
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Antipyretic	
Antisalmonella MIC=800 ug/ml	
Antiseptic 800 ug/ml	
Antiyeast MFC=1,600 ug/ml	
Choleretic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Expectorant	
FLavor FEMA 250	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry
Fungicide MFC=1,600 ug/ml	
Insectifuge	Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.
Pesticide	
Phytoalexin	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Tyrosinase-Inhibitor ID50=710 uM	
Tyrosinase-Inhibitor ID50=640 uM	
Uricosuric	
Vulnerary	

BETA-SITOSTEROL	Rhizome	--	--	*
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Activities (47)

Androgenic	
Angiogenic	
Anorexic	Martindale's 28th
Antiadenomic	Merck 11th Edition
Antiandrogenic	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. <i>Journal of Ethnopharmacology</i> , 28: 221-234, 1990.
Antibacterial	Recently became Internat. J. Crude Drug Res. 28(1,2,3,4):1990, page 155.
Anticancer (Breast)	Madhavi, D. L., Bomser, J., Smith, M., Singletary, K. 1998. Isolation of Bioactive Constituents from <i>Vaccinium myrtillus</i> (Bilberry) Fruits and Cell Cultures. <i>Plant Sci.</i> , 131(1): 95-103.
Anticancer (Cervix)	
Anticancer (Lung)	
Antiedemic IC54=320 mg/kg orl	
Antiestrogenic	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. <i>Journal of Ethnopharmacology</i> , 28: 221-234, 1990.
Antifeedant	Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.
Antifertility	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. <i>Journal of Ethnopharmacology</i> , 28: 221-234, 1990.
Antigonadotrophic	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. <i>Journal of Ethnopharmacology</i> , 28: 221-234, 1990.
Antihyperlipoproteinaemic	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.</i> Taylor & Frost, London. 791 pp.
Antiinflammatory	
Antileukemic	
Antilymphomic	
Antimutagenic 250 ug/ml	
Antiophidic 2.3 mg mus	Economic & Medicinal Plant Research, 5: 363.
Antioxidant IC44=10 uM	
Antiprogestational	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. <i>Journal of Ethnopharmacology</i> , 28: 221-234, 1990.
Antiprostaglandin 30 mg/day/12 wks	
Antiprostataadenomic	Merck 11th Edition
Antiprostatic 10-20 mg 3 x/day/orl man	
Antipyretic	Neuwinger, H. D. 1996. <i>African Ethnobotany - Poisons and Drugs.</i> Chapman & Hall, New York. 941 pp.
Antitumor (Breast)	Madhavi, D. L., Bomser, J., Smith, M., Singletary, K. 1998. Isolation of Bioactive Constituents from <i>Vaccinium myrtillus</i> (Bilberry) Fruits and Cell Cultures. <i>Plant Sci.</i> , 131(1): 95-103.
Antitumor (Cervix)	
Antitumor (Lung)	
Antiviral	Abid Ali Khan, M.M., Jain, D.C., Bhakuni, R.S., Zaim, M., and Thakur, R.S. 1991. Occurrence of some antiviral sterols in <i>Artemisia annua</i> . <i>Plant Science</i> , 75: 161-165, 1991.
Apoptotic	
Artemicide LC50=110 ppm	Jung, J.H., Pummangura, S., Chaichantipyuth, c., Patarapanich, C., and McLaughlin, J.L. 1989. Bioactive Constituents of <i>Melodorum fruticosum</i> . <i>Phytochemistry</i> . 29(5): 1667-1670. 1990.
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Candidicide	Recently became Internat. J. Crude Drug Res. 28(1,2,3,4):1990, page 155.
Caspase-8-Inducer	
Estrogenic	
Febrifuge	Neuwinger, H. D. 1996. <i>African Ethnobotany - Poisons and Drugs.</i> Chapman & Hall, New York. 941 pp.
Gonadotrophic	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. <i>Journal of Ethnopharmacology</i> , 28: 221-234, 1990.
Hepatoprotective	
Hypocholesterolemic 2-6 g/man/day/orl	Martindale's 30th
Hypocholesterolemic 9-3,330 mg/man/day/orl	Martindale's 28th
Hypoglycemic	Ivorra, M.D., Paya, M., and Villar, A. 1989. A Review of Natural Products and Plants as Potential Antidiabetic Drugs. <i>Journal of Ethnopharmacology</i> , 27: 243-275, 1989.
Hypolipidemic 2-6 g/day	
Pesticide	
Spermicide	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. <i>Journal of Ethnopharmacology</i> , 28: 221-234, 1990.
Ubiquiot	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.</i> Taylor & Frost, London. 791 pp.
Ulcerogenic 500 mg/kg ipr rat	

BETA-SITOSTEROL

Leaf

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Angiogenic	
Anorexic	Martindale's 28th
Antiadenomic	Merck 11th Edition
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BETA-SITOSTEROL Root -- 166000.0 3.74 *

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Ubiquit	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Ulcerogenic 500 mg/kg ipr rat	

CAMPESTEROL

Rhizome -- -- *

Activities (2)

Antioxidant IC37=10 uM	
Hypocholesterolemic	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.

CAPRONIC-ACID

Rhizome -- -- Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.

CEPHARADIONE-A

Root -- 2.0 *

CHOLESTEROL	Rhizome	--	--	*
Activities (1)				
Antioxidant IC43=10 uM				
CINNAMALACETONE	Rhizome	--	--	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
CINNAMALACETONE	Resin, Exudate, Sap	--	64550.0	*
CINNAMALAKETONE	Root	--	--	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
CINNAMIC-ACID	Plant	--	--	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Activities (18)				
Aldose-Reductase-Inhibitor 4 ug/ml (weak activity)	Ichikawa, K., et al. 1991. Isolation and Structure Determination of Aldose Reductase Inhibitors from Traditional Thai Medicine, and Syntheses of Their Derivatives. Sankyo Kenkyusho Nempo, 43: 99-110.			
Allergenic				
Anesthetic				
Antibacterial	Martindale's 28th			
Antiinflammatory				
Antimutagenic	Economic & Medicinal Plant Research, 6: 235.			
Antispasmodic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.			
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.			
Choleretic				
Dermatitigenic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.			
FLavor FEMA 4-40	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry			
Fungicide				
Herbicide				
Laxative				
Lipoxygenase-Inhibitor				
Pesticide				
Tyrosinase-Inhibitor ID50=700 uM				
Vermifuge				
CINNAMIC-ACID	Rhizome	--	--	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
Activities (18)				
Aldose-Reductase-Inhibitor 4 ug/ml (weak activity)	Ichikawa, K., et al. 1991. Isolation and Structure Determination of Aldose Reductase Inhibitors from Traditional Thai Medicine, and Syntheses of Their Derivatives. Sankyo Kenkyusho Nempo, 43: 99-110.			
Allergenic				
Anesthetic				
Antibacterial	Martindale's 28th			
Antiinflammatory				
Antimutagenic	Economic & Medicinal Plant Research, 6: 235.			
Antispasmodic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.			
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.			
Choleretic				
Dermatitigenic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.			
FLavor FEMA 4-40	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry			
Fungicide				
Herbicide				
Laxative				
Lipoxygenase-Inhibitor				
Pesticide				
Tyrosinase-Inhibitor ID50=700 uM				
Vermifuge				
CINNAMIC-ACID-BORNYL-ESTER	Root	--	300.0	*

Activities (3)				
Antiinflammatory COX-1-Inhibitor IC66=100 ug/ml COX-2-Inhibitor IC19=100 ug/ml				
CINNAMIC-ACID-PYRROLIDIDE	Rhizome	--	--	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
CINNAMIC-ACID-PYRROLIDIDE	Plant	--	--	*
CINNAMYLIDENACETOL	Plant	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
COMPOUND-A	Root	--	90.0	*
DEHYDROKAWAIN	Stem	--	--	*
DEHYDROKAWAIN	Resin, Exudate, Sap	--	11100.0	*
DEHYDROKAWAIN	Root	--	--	*
DEHYDROMETHYSTICIN	Plant	--	--	*
DEMETHOXYXYANGONIN	Stem	--	--	*
DEMETHOXYXYANGONIN	Rhizome	--	--	*
DEMETHOXYXYANGONIN	Root	--	--	*
DEMETHOXYXYANGONIN	Plant	--	--	*
DEMETHOXYXYANGONIN	Leaf	--	--	*
DESMETHOXYXYANGONIN	Plant	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
DESMETHOXYXYANGONIN	Rhizome	--	10000.0	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
DIHYDROKAWAIN	Stem	--	--	*
Activities (14)				
Analgesic 150 mg/kg ipr mus				
Anesthetic 0.25%				
Anticonvulsant				
Antidote (Strychnine)				
Antiinflammatory				
Antinociceptive				
Antipyretic				
Antispasmodic				
Endoanesthetic 5-20 mg/kg				
Fungistat	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.			
MAO-B-Inhibitor				
Myorelaxant 90 mg/kg				
Neuroprotective				
Sedative	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.			
DIHYDROKAWAIN	Plant	--	--	*

Activities (14)				
Analgesic 150 mg/kg ipr mus				
Anesthetic 0.25%				
Anticonvulsant				
Antidote (Strychnine)				
Antiinflammatory				
Antinociceptive				
Antipyretic				
Antispasmodic				
Endoanesthetic 5-20 mg/kg				
Fungistat				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
MAO-B-Inhibitor				
Myorelaxant 90 mg/kg				
Neuroprotective				
Sedative				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.

DIHYDROKAWAIN Rhizome 6000.0 10500.0 *

Activities (14)				
Analgesic 150 mg/kg ipr mus				
Anesthetic 0.25%				
Anticonvulsant				
Antidote (Strychnine)				
Antiinflammatory				
Antinociceptive				
Antipyretic				
Antispasmodic				
Endoanesthetic 5-20 mg/kg				
Fungistat				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
MAO-B-Inhibitor				
Myorelaxant 90 mg/kg				
Neuroprotective				
Sedative				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.

DIHYDROKAWAIN Leaf -- -- *

Activities (14)				
Analgesic 150 mg/kg ipr mus				
Anesthetic 0.25%				
Anticonvulsant				
Antidote (Strychnine)				
Antiinflammatory				
Antinociceptive				
Antipyretic				
Antispasmodic				
Endoanesthetic 5-20 mg/kg				
Fungistat				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
MAO-B-Inhibitor				
Myorelaxant 90 mg/kg				
Neuroprotective				
Sedative				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.

DIHYDROKAWAIN Root -- 740.0 *

Activities (14)

Analgesic 150 mg/kg ipr mus
 Anesthetic 0.25%
 Anticonvulsant
 Antidote (Strychnine)
 Antiinflammatory
 Antinociceptive
 Antipyretic
 Antispasmodic
 Endoanesthetic 5-20 mg/kg
 Fungistat
 MAO-B-Inhibitor
 Myorelaxant 90 mg/kg
 Neuroprotective
 Sedative

Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.

Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.

DIHYDROKAWAIN-5-OL Rhizome -- -- *

DIHYDROKAWAIN-5-OL Plant -- -- List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

DIHYDROMETHYSTICIN Rhizome 5000.0 8500.0 *

Activities (18)

Analgesic
 Anesthetic 0.25%
 Anticonvulsant ED50 140 mg/kg orl mus
 Antidote (Strychnine)
 Antiepileptic 800 mg/man
 Antiinflammatory
 Antiischemic 10-30 mg/kg ivn mus
 Antinociceptive
 Antipyretic
 Antispasmodic
 CNS-Depressant
 Dermatitigenic
 Endoanesthetic 5-20 mg/kg
 MAO-B-Inhibitor
 Myorelaxant 60 mg/kg
 Myorelaxant IC50 20 mg/kg ivn mus
 Neuroprotective 10-30 mg/kg ivn mus
 Sedative 60 mg/kg ipr

Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.

Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.

DIHYDROMETHYSTICIN Stem -- -- *

Activities (18)

Analgesic	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Anesthetic 0.25%	
Anticonvulsant ED50 140 mg/kg orl mus	
Antidote (Strychnine)	
Antiepileptic 800 mg/man	
Antiinflammatory	
Antiischemic 10-30 mg/kg ivn mus	
Antinociceptive	
Antipyretic	
Antispasmodic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
CNS-Depressant	
Dermatitogenic	
Endoanesthetic 5-20 mg/kg	
MAO-B-Inhibitor	
Myorelaxant 60 mg/kg	
Myorelaxant IC50 20 mg/kg ivn mus	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
Neuroprotective 10-30 mg/kg ivn mus	
Sedative 60 mg/kg ipr	

DIHYDROMETHYSTICIN Leaf -- -- *

Activities (18)

Analgesic	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Anesthetic 0.25%	
Anticonvulsant ED50 140 mg/kg orl mus	
Antidote (Strychnine)	
Antiepileptic 800 mg/man	
Antiinflammatory	
Antiischemic 10-30 mg/kg ivn mus	
Antinociceptive	
Antipyretic	
Antispasmodic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
CNS-Depressant	
Dermatitogenic	
Endoanesthetic 5-20 mg/kg	
MAO-B-Inhibitor	
Myorelaxant 60 mg/kg	
Myorelaxant IC50 20 mg/kg ivn mus	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
Neuroprotective 10-30 mg/kg ivn mus	
Sedative 60 mg/kg ipr	

DIHYDROMETHYSTICIN Plant -- -- *

Activities (18)				
Analgesic	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.			
Anesthetic 0.25%				
Anticonvulsant ED50 140 mg/kg orl mus				
Antidote (Strychnine)				
Antiepileptic 800 mg/man				
Antiinflammatory				
Antiischemic 10-30 mg/kg ivn mus				
Antinociceptive				
Antipyretic				
Antispasmodic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.			
CNS-Depressant				
Dermatitogenic				
Endoanesthetic 5-20 mg/kg				
MAO-B-Inhibitor				
Myorelaxant 60 mg/kg				
Myorelaxant IC50 20 mg/kg ivn mus	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.			
Neuroprotective 10-30 mg/kg ivn mus				
Sedative 60 mg/kg ipr				

DIHYDROMETHYSTICIN Root -- 160.0 *

Activities (18)				
Analgesic	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.			
Anesthetic 0.25%				
Anticonvulsant ED50 140 mg/kg orl mus				
Antidote (Strychnine)				
Antiepileptic 800 mg/man				
Antiinflammatory				
Antiischemic 10-30 mg/kg ivn mus				
Antinociceptive				
Antipyretic				
Antispasmodic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.			
CNS-Depressant				
Dermatitogenic				
Endoanesthetic 5-20 mg/kg				
MAO-B-Inhibitor				
Myorelaxant 60 mg/kg				
Myorelaxant IC50 20 mg/kg ivn mus	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.			
Neuroprotective 10-30 mg/kg ivn mus				
Sedative 60 mg/kg ipr				

DIMETHOXYKAVAIN Plant -- -- *

DOCOSAN-1-OL Rhizome -- -- *

DOCOSANOL Root -- 2000.0 *

DODECAN-1-OL Rhizome -- -- *

EICOSAN-1-OL Rhizome -- -- *

EICOSANOL Root -- 2100.0 *

Activities (1)				
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.			

FIBER Root -- 200000.0 2.48 Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.

Activities (15)				
Angiotensin-Receptor-Blocker				
Antidiabetic				
Antihypertensive				
Antiobesity				
Antitumor				Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
Antiulcer				Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
Beta-Blocker				
Cancer-Preventive				Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Cardioprotective				
Diuretic				
Hypocholesterolemic				
Hypotensive 10 g/man/day/orl				Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
Hypouricemic				
Laxative				
Vasodilator				

FLAVOKAVIN-A	Plant	--	--	*
FLAVOKAVIN-A	Root	--	--	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
FLAVOKAVIN-B	Plant	--	--	*
FLAVOKAVIN-B	Root	--	--	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
FLAVOKAVIN-C	Plant	--	--	*
FLAVOKAWAIN	Root	--	200.0	*
FLAVOKAWAIN-C	Plant	--	200.0	J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
FLAVOKAWIN-A	Resin, Exudate, Sap	--	1620.0	*
FLAVOKAWIN-A	Root	--	--	*
FLAVOKAWIN-A	Plant	--	--	*
FLAVOKAWIN-A	Rhizome	--	--	*
FLAVOKAWIN-A	Leaf	--	--	*
FLAVOKAWIN-B	Plant	--	--	*
FLAVOKAWIN-B	Resin, Exudate, Sap	--	1400.0	*
FLAVOKAWIN-B	Leaf	--	--	*
FLAVOKAWIN-B	Rhizome	--	--	*
FLAVOKAWIN-C	Rhizome	--	--	*
FLAVOKAWIN-C	Root	--	--	*
FRUCTOSE	Root	--	--	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.

Activities (8)				
Antialcoholic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.			
Antidiabetic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.			
Antihangover				
Antiketotic	Merck 11th Edition			
Antinauseant	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.			
Laxative				
Neoplastic	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses			
Sweetener 2 x glucose	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.			

GLUCOSE

Root

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Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.

Activities (7)

Acetylcholinergic

Antiedemic Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

Antihepatotoxic Merck 11th Edition

Antiketotic Merck 11th Edition

Antivaricose Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

Hyperglycemic Merck 11th Edition

Memory-Enhancer Science News, 138: 189, 1990.

HEXADECAN-1-OL

Rhizome

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HEXADECANOL

Root

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3600.0

*

Activities (1)

FLavor FEMA<1-2

Aloe Research Council - Duke writeup of non-peer reviewed book by Coats and draft by Henry

HYDROXYCINNAMIC-ACID

Rhizome

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Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.

HYDROXYKAWAIN

Plant

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Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.

KAVALACTONES

Root

30000.0

200000.0

*

KAWAIN

Leaf

--

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*

Activities (29)

Analgesic 300 mg/kg ipr mus	
Anesthetic =cocaine 0.25%	
Antiaggregant IC50=71-115 uM/l	
Antiarachidonate IC50=71-115 uM/l	
Anticonvulsant	
Antidote (Strychnine) (3 mg/kg) IC50=98 mg/kg	
Antiedemic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Antifibrillary 20 mg/kg	
Antiinflammatory	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Antimycotic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Antinociceptive	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
Antiprostaglandin	
Antipyretic	
Antiseptic	
Antispasmodic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Antithrombotic	
Antithromboxane IC50=71-115 uM/l	
Anxiolytic	
CNS-Depressant	
Cyclooxygenase-Inhibitor IC50=71-115 uM/l	
Endoanesthetic 5-20 mg/kg	
Fungicide	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
MAO-B-Inhibitor	
Myorelaxant 60 mg/kg ipr	
Myorelaxant IC50 20 mg/kg ivn mus	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
Neurotoxic	R.J. Hixtable (Huxtable, R.J. (as T. Max). 1992. This and That: The Essential Pharmacology of Herbs and Spices. Tips 13:15-20 Huxtable, R.J. 1992b. The Myth of Benificent Nature. The Risk of Herbal Preparations. Anns. Intern. Med. 117(2):165-6; Huxtable, R.
Pesticide	
Sedative 60 mg/kg ipr	
Tranquilizer	HerbalGram No. 24, page 37.

KAWAIN

Resin, -- 33800.0 *

Exudate,

Sap

Activities (29)

Analgesic 300 mg/kg ipr mus	
Anesthetic =cocaine 0.25%	
Antiaggregant IC50=71-115 uM/l	
Antiarachidonate IC50=71-115 uM/l	
Anticonvulsant	
Antidote (Strychnine) (3 mg/kg) IC50=98 mg/kg	
Antiedemic	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.</i> Taylor & Frost, London. 791 pp.
Antifibrillary 20 mg/kg	
Antiinflammatory	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.</i> Taylor & Frost, London. 791 pp.
Antimycotic	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.</i> Taylor & Frost, London. 791 pp.
Antinociceptive	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. <i>Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D)</i> , 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
Antiprostaglandin	
Antipyretic	
Antiseptic	
Antispasmodic	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.</i> Taylor & Frost, London. 791 pp.
Antithrombotic	
Antithromboxane IC50=71-115 uM/l	
Anxiolytic	
CNS-Depressant	
Cyclooxygenase-Inhibitor IC50=71-115 uM/l	
Endoanesthetic 5-20 mg/kg	
Fungicide	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.</i> Taylor & Frost, London. 791 pp.
MAO-B-Inhibitor	
Myorelaxant 60 mg/kg ipr	
Myorelaxant IC50 20 mg/kg ivn mus	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. <i>Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D)</i> , 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
Neurotoxic	R.J. Hixtable (Huxtable, R.J. (as T. Max). 1992. This and That: The Essential Pharmacology of Herbs and Spices. <i>Tips</i> 13:15-20 Huxtable, R.J. 1992b. The Myth of Benificent Nature. The Risk of Herbal Preparations. <i>Anns. Intern. Med.</i> 117(2):165-6; Huxtable, R.
Pesticide	
Sedative 60 mg/kg ipr	
Tranquilizer	HerbalGram No. 24, page 37.

KAWAIN

Stem

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Activities (29)

Analgesic 300 mg/kg ipr mus	
Anesthetic =cocaine 0.25%	
Antiaggregant IC50=71-115 uM/l	
Antiarachidonate IC50=71-115 uM/l	
Anticonvulsant	
Antidote (Strychnine) (3 mg/kg) IC50=98 mg/kg	
Antiedemic	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.</i> Taylor & Frost, London. 791 pp.
Antifibrillary 20 mg/kg	
Antiinflammatory	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.</i> Taylor & Frost, London. 791 pp.
Antimycotic	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.</i> Taylor & Frost, London. 791 pp.
Antinociceptive	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. <i>Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D)</i> , 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
Antiprostaglandin	
Antipyretic	
Antiseptic	
Antispasmodic	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.</i> Taylor & Frost, London. 791 pp.
Antithrombotic	
Antithromboxane IC50=71-115 uM/l	
Anxiolytic	
CNS-Depressant	
Cyclooxygenase-Inhibitor IC50=71-115 uM/l	
Endoanesthetic 5-20 mg/kg	
Fungicide	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.</i> Taylor & Frost, London. 791 pp.
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Myorelaxant 60 mg/kg ipr	
Myorelaxant IC50 20 mg/kg ivn mus	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. <i>Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D)</i> , 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
Neurotoxic	R.J. Hixtable (Huxtable, R.J. (as T. Max), 1992. <i>This and That: The Essential Pharmacology of Herbs and Spices.</i> Tips 13:15-20 Huxtable, R.J. 1992b. <i>The Myth of Benificent Nature. The Risk of Herbal Preparations.</i> <i>Anns. Intern. Méd.</i> 117(2):165-6; Huxtable, R.
Pesticide	
Sedative 60 mg/kg ipr	
Tranquilizer	HerbalGram No. 24, page 37.

KAWAIN

Rhizome 9300.0 12000.0

*

Activities (29)Analgesic 300 mg/kg ipr
musAnesthetic =cocaine
0.25%Antiaggregant IC50=71-
115 uM/lAntiarachidonate
IC50=71-115 uM/l

Anticonvulsant

Antidote (Strychnine) (3
mg/kg) IC50=98 mg/kg

Antiedemic Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

Antifibrillary 20 mg/kg

Antiinflammatory Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

Antimycotic Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

Antinociceptive Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.

Antiprostaglandin

Antipyretic

Antiseptic

Antispasmodic Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

Antithrombotic

Antithromboxane
IC50=71-115 uM/l

Anxiolytic

CNS-Depressant

Cyclooxygenase-Inhibitor
IC50=71-115 uM/lEndoanesthetic 5-20
mg/kg

Fungicide Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

MAO-B-Inhibitor

Myorelaxant 60 mg/kg ipr

Myorelaxant IC50 20 mg/kg ivn mus Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.

Neurotoxic R.J. Hixtable (Huxtable, R.J. (as T. Max). 1992. This and That:The Essential Pharmacology of Herbs and Spices. Tips 13:15-20 Huxtable, R.J. 1992b. The Myth of Benificent Nature. The Risk of Herbal Preparations. Anns. Intern. Med. 117(2):165-6; Huxtable, R.

Pesticide

Sedative 60 mg/kg ipr

Tranquilizer HerbalGram No. 24, page 37.

KAWAINIC-ACID	Plant	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
M-METHOXYCINNAMIC-ACID-PYRROLIDIDE	Plant	--	--	*
MALTOSE	Root	--	--	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.

Activities (2)

Antidiabetic Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

Sweetener 0.32 x
sucrose Martindale's 28th

METHYLENE-DIOXY-3,4-CINNAMAOYLACETONE	Rhizome	--	--	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
METHYLENE-DIOXY-3,4-CINNAMAOYLKETONE	Root	--	--	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
METHYSTICIN	Plant	--	--	*

Activities (18)

Analgesic 360 mg/kg ipr mus	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
Anesthetic 0.25%	
Anticonvulsant	R.J. Hixtable (Huxtable, R.J. (as T. Max). 1992. This and That: The Essential Pharmacology of Herbs and Spices. Tips 13:15-20 Huxtable, R.J. 1992b. The Myth of Benificent Nature. The Risk of Herbal Preparations. Anns. Intern. Méd. 117(2):165-6; Huxtable, R.
Antidote (Strychnine) (Strychnine 3 mg/kg) IC=31 mg/kg	
Antifibrillary 20 mg/kg	
Antiinflammatory	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Antiischemic 10-30 mg/kg ivn mus	
Antinociceptive	
Antipyretic	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Antispasmodic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
CNS-Depressant	
Endoanesthetic 5-20 mg/kg	
MAO-B-Inhibitor	
Myorelaxant 45 mg/kg	
Neuroprotective 10-30 mg/kg ivn mus	
Neurotoxic	R.J. Hixtable (Huxtable, R.J. (as T. Max). 1992. This and That: The Essential Pharmacology of Herbs and Spices. Tips 13:15-20 Huxtable, R.J. 1992b. The Myth of Benificent Nature. The Risk of Herbal Preparations. Anns. Intern. Méd. 117(2):165-6; Huxtable, R.
Psychoactive	R.J. Hixtable (Huxtable, R.J. (as T. Max). 1992. This and That: The Essential Pharmacology of Herbs and Spices. Tips 13:15-20 Huxtable, R.J. 1992b. The Myth of Benificent Nature. The Risk of Herbal Preparations. Anns. Intern. Méd. 117(2):165-6; Huxtable, R.
Sedative 45 mg/kg ipr	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.

METHYSTICIN Rhizome 12000.0 13400.0 *

Activities (18)

Analgesic 360 mg/kg ipr mus	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
Anesthetic 0.25%	
Anticonvulsant	R.J. Hixtable (Huxtable, R.J. (as T. Max). 1992. This and That: The Essential Pharmacology of Herbs and Spices. Tips 13:15-20 Huxtable, R.J. 1992b. The Myth of Benificent Nature. The Risk of Herbal Preparations. Anns. Intern. Méd. 117(2):165-6; Huxtable, R.
Antidote (Strychnine) (Strychnine 3 mg/kg) IC=31 mg/kg	
Antifibrillary 20 mg/kg	
Antiinflammatory	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Antiischemic 10-30 mg/kg ivn mus	
Antinociceptive	
Antipyretic	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Antispasmodic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
CNS-Depressant	
Endoanesthetic 5-20 mg/kg	
MAO-B-Inhibitor	
Myorelaxant 45 mg/kg	
Neuroprotective 10-30 mg/kg ivn mus	
Neurotoxic	R.J. Hixtable (Huxtable, R.J. (as T. Max). 1992. This and That: The Essential Pharmacology of Herbs and Spices. Tips 13:15-20 Huxtable, R.J. 1992b. The Myth of Benificent Nature. The Risk of Herbal Preparations. Anns. Intern. Méd. 117(2):165-6; Huxtable, R.
Psychoactive	R.J. Hixtable (Huxtable, R.J. (as T. Max). 1992. This and That: The Essential Pharmacology of Herbs and Spices. Tips 13:15-20 Huxtable, R.J. 1992b. The Myth of Benificent Nature. The Risk of Herbal Preparations. Anns. Intern. Méd. 117(2):165-6; Huxtable, R.
Sedative 45 mg/kg ipr	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.

METHYSTICIN Resin, -- 22200.0 *
Exudate,
Sap

Activities (18)

Analgesic 360 mg/kg ipr mus	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
Anesthetic 0.25%	
Anticonvulsant	R.J. Hixtable (Huxtable, R.J. (as T. Max). 1992. This and That: The Essential Pharmacology of Herbs and Spices. Tips 13:15-20 Huxtable, R.J. 1992b. The Myth of Benificent Nature. The Risk of Herbal Preparations. Anns. Intern. Méd. 117(2):165-6; Huxtable, R.
Antidote (Strychnine) (Strychnine 3 mg/kg) IC=31 mg/kg	
Antifibrillary 20 mg/kg	
Antiinflammatory	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Antischematic 10-30 mg/kg ivn mus	
Antinociceptive	
Antipyretic	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Antispasmodic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
CNS-Depressant	
Endoanesthetic 5-20 mg/kg	
MAO-B-Inhibitor	
Myorelaxant 45 mg/kg	
Neuroprotective 10-30 mg/kg ivn mus	
Neurotoxic	R.J. Hixtable (Huxtable, R.J. (as T. Max). 1992. This and That: The Essential Pharmacology of Herbs and Spices. Tips 13:15-20 Huxtable, R.J. 1992b. The Myth of Benificent Nature. The Risk of Herbal Preparations. Anns. Intern. Méd. 117(2):165-6; Huxtable, R.
Psychoactive	R.J. Hixtable (Huxtable, R.J. (as T. Max). 1992. This and That: The Essential Pharmacology of Herbs and Spices. Tips 13:15-20 Huxtable, R.J. 1992b. The Myth of Benificent Nature. The Risk of Herbal Preparations. Anns. Intern. Méd. 117(2):165-6; Huxtable, R.
Sedative 45 mg/kg ipr	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.

METHYSTICIN Root -- 140.0 *

Activities (18)

Analgesic 360 mg/kg ipr mus	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
Anesthetic 0.25%	
Anticonvulsant	R.J. Hixtable (Huxtable, R.J. (as T. Max). 1992. This and That: The Essential Pharmacology of Herbs and Spices. Tips 13:15-20 Huxtable, R.J. 1992b. The Myth of Benificent Nature. The Risk of Herbal Preparations. Anns. Intern. Méd. 117(2):165-6; Huxtable, R.
Antidote (Strychnine) (Strychnine 3 mg/kg) IC=31 mg/kg	
Antifibrillary 20 mg/kg	
Antiinflammatory	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Antischematic 10-30 mg/kg ivn mus	
Antinociceptive	
Antipyretic	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Antispasmodic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
CNS-Depressant	
Endoanesthetic 5-20 mg/kg	
MAO-B-Inhibitor	
Myorelaxant 45 mg/kg	
Neuroprotective 10-30 mg/kg ivn mus	
Neurotoxic	R.J. Hixtable (Huxtable, R.J. (as T. Max). 1992. This and That: The Essential Pharmacology of Herbs and Spices. Tips 13:15-20 Huxtable, R.J. 1992b. The Myth of Benificent Nature. The Risk of Herbal Preparations. Anns. Intern. Méd. 117(2):165-6; Huxtable, R.
Psychoactive	R.J. Hixtable (Huxtable, R.J. (as T. Max). 1992. This and That: The Essential Pharmacology of Herbs and Spices. Tips 13:15-20 Huxtable, R.J. 1992b. The Myth of Benificent Nature. The Risk of Herbal Preparations. Anns. Intern. Méd. 117(2):165-6; Huxtable, R.
Sedative 45 mg/kg ipr	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.

METHYSTICIN Leaf -- 7100.0 *

Activities (9)				
Acaricide				
Antiseptic				
CNS-Paralytic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.			
Fatal	Martindale's 29th			
Hemostatic	Merck 11th Edition			
Irritant				
Pesticide				
Renotoxic	Merck 11th Edition			
Varroacide				

P-METHOXY-PHENYL-ACETIC-ACID	Rhizome	--	--		Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
PHENYLACETIC-ACID	Rhizome	--	--		Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.

Activities (2)					
Flavor FEMA 0.1-30	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry				
Perfumery	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry				

PINOSTROBIN	Root	--	70.0		*
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Activities (6)					
Antiinflammatory					
Aromatase-Inhibitor IC52=1 uM/l	Journal of Medicinal Food 2: 235.1999.				
COX-1-Inhibitor IC36=100 ug/ml					
COX-2-Inhibitor IC7=100 ug/ml					
Fungicide 2.5 mM	Geibel, M. 1994. Sensitivity of the Fungus <i>Cytospora persoonii</i> to the Flavonoids of <i>Prunus cerasus</i> . <i>Phytochemistry</i> . 38(3): 599-601. 1995.				
Pesticide					

PIPERMETHYSTINE	Leaf	--	1700.0		*
PIPERMETHYSTINE	Plant	--	--		J.S. Glasby Dict.Plis Containing 2ndary Metabolite. 1991.
PROTEIN	Root	--	36000.0	-0.93	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
RESIN	Root	--	53000.0	1.58	Madaus, G. 1976. Lehrbuch der Biologischen Hilfsmittel. Vol., 1-3. 2862 pp. (+ 144 p. index). Georg Olms Verlag, Hildesheim. Reprint of 1938 Madaus.
RESINIC-ACID	Root	--	233000.0		Madaus, G. 1976. Lehrbuch der Biologischen Hilfsmittel. Vol., 1-3. 2862 pp. (+ 144 p. index). Georg Olms Verlag, Hildesheim. Reprint of 1938 Madaus.
STARCH	Root	--	430000.0	0.48	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.

Activities (5)					
Absorbent	Martindale's 29th				
Antidote (Iodine)	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.				
Antinesidioblastosic	Martindale's 29th				
Emollient	Martindale's 29th				
Poultice	Martindale's 29th				
STIGMASTANOL	Rhizome	--	--		*
STIGMASTEN-4,3,6-DIONE	Plant	--	--		*
STIGMASTENDIONE	Plant	--	--		*
STIGMASTEROL	Rhizome	--	--		*

Activities (12)

Amebicide	
Anesthetic	
Antibacterial	
Antiinflammatory	
Antipyretic	
Antispasmodic	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.</i> Taylor & Frost, London. 791 pp.
CNS-Depressant	
MAO-B-Inhibitor	
Myorelaxant 45 mg/kg ipr	
Myorelaxant IC50 5 mg/kg ivn mus	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. <i>Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D)</i> , 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
Pesticide	
Sedative 45 mg/kg ipr	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. <i>Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D)</i> , 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.

YANGONIN	Resin,	--	43300.0	*
	Exudate,			
	Sap			

Activities (12)

Amebicide	
Anesthetic	
Antibacterial	
Antiinflammatory	
Antipyretic	
Antispasmodic	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.</i> Taylor & Frost, London. 791 pp.
CNS-Depressant	
MAO-B-Inhibitor	
Myorelaxant 45 mg/kg ipr	
Myorelaxant IC50 5 mg/kg ivn mus	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. <i>Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D)</i> , 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
Pesticide	
Sedative 45 mg/kg ipr	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. <i>Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D)</i> , 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.

YANGONIN	Plant	--	--	*
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Activities (12)

Amebicide	
Anesthetic	
Antibacterial	
Antiinflammatory	
Antipyretic	
Antispasmodic	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.</i> Taylor & Frost, London. 791 pp.
CNS-Depressant	
MAO-B-Inhibitor	
Myorelaxant 45 mg/kg ipr	
Myorelaxant IC50 5 mg/kg ivn mus	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. <i>Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D)</i> , 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
Pesticide	
Sedative 45 mg/kg ipr	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. <i>Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D)</i> , 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.

YANGONIN	Rhizome	6800.0	10000.0	*
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Activities (12)				
Amebicide				
Anesthetic				
Antibacterial				
Antiinflammatory				
Antipyretic				
Antispasmodic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.			
CNS-Depressant				
MAO-B-Inhibitor				
Myorelaxant 45 mg/kg ipr				
Myorelaxant IC50 5 mg/kg ivn mus	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.			
Pesticide				
Sedative 45 mg/kg ipr	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.			

YANGONIN Leaf -- -- *

Activities (12)				
Amebicide				
Anesthetic				
Antibacterial				
Antiinflammatory				
Antipyretic				
Antispasmodic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.			
CNS-Depressant				
MAO-B-Inhibitor				
Myorelaxant 45 mg/kg ipr				
Myorelaxant IC50 5 mg/kg ivn mus	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.			
Pesticide				
Sedative 45 mg/kg ipr	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.			

YANGONIN Root -- 280.0 *

Activities (12)				
Amebicide				
Anesthetic				
Antibacterial				
Antiinflammatory				
Antipyretic				
Antispasmodic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.			
CNS-Depressant				
MAO-B-Inhibitor				
Myorelaxant 45 mg/kg ipr				
Myorelaxant IC50 5 mg/kg ivn mus	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.			
Pesticide				
Sedative 45 mg/kg ipr	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.			

YANGONIN-I Plant -- -- *

YANGONIN-II Plant -- -- *

YANGONIN-III Plant -- -- *