

List of All Chemicals

P Scutellaria churchilliana (Lamiaceae)

Common name(s)

Hybrid Skullcap

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 |
|-----------------------|---|------------|-------------|--------|--|
| 1-OCTEN-3-OL | Plant | -- | 58.0 | -0.32 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| ALPHA-HUMULENE | Plant | -- | 11.0 | -0.67 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Activities (2) | | | | | |
| Antitumor | Zheng, G-Q., Kenney, P.M., and Lam, L.K.T. Sesquiterpenes From Clove (<i>Eugenia caryophyllata</i>) As Potential Anticarcinogenic Agents. <i>Journal of Natural Products</i> 55(7): 999-1003, 1992. | | | | |
| Perfumery | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.</i> Taylor & Frost, London. 791 pp. | | | | |
| CARYOPHYLLENE | Plant | -- | 68.0 | -0.49 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |

Activities (31)

| | |
|------------------------------------|--|
| Aldose-Reductase-Inhibitor | |
| Allergenic | |
| Analgesic | Taylor, Leslie. 2005. The Healing Power of Rainforest Herbs. SquareOne Publisher, Garden City Park, NY. 519 pp. |
| Antiacne | |
| Antiasthmatic | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| Antibacterial | |
| Anticariogenic MIC=>1,600 ug/ml | Muroi, H. and Kubo, I. 1993. Combination Effects of Antibacterial Compounds in Green Tea Flavor against Streptococcus mutans. J. Agric. Food Chem. 41: 1102-1105. |
| Antidermatitic | |
| Antiedemic | Shimizu,*M., et al. 1990. Anti-inflammatory Constituents of Topically Applied Crude Drugs. IV.1) Constituents and Anti-inflammatory Effect of Paraguayan Crude Drug 'Alhucema' (Lavandula latifolia Vill.)2). Chem. Pharm. Bull. 38(8): 2283-2284, 1990. |
| Antifeedant 500 ppm | Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp. |
| Antiinflammatory IC50=100 uM | Shimizu,*M., et al. 1990. Anti-inflammatory Constituents of Topically Applied Crude Drugs. IV.1) Constituents and Anti-inflammatory Effect of Paraguayan Crude Drug 'Alhucema' (Lavandula latifolia Vill.)2). Chem. Pharm. Bull. 38(8): 2283-2284, 1990. |
| Antileishmanic | |
| Antionychotic | Taylor, Leslie. 2005. The Healing Power of Rainforest Herbs. SquareOne Publisher, Garden City Park, NY. 519 pp. |
| Antiproliferant | |
| Antispasmodic | |
| Antistaphylococcic | |
| Antistreptococcic | |
| Antitumor | Zheng, G-Q., Kenney, P.M., and Lam, L.K.T. Sesquiterpenes From Clove (Eugenia caryophyllata) As Potential Anticarcinogenic Agents. Journal of Natural Products 55(7): 999-1003, 1992. |
| Antiulcer | Taylor, Leslie. 2005. The Healing Power of Rainforest Herbs. SquareOne Publisher, Garden City Park, NY. 519 pp. |
| Candidicide | |
| FLavor FEMA 20-200 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Fungicide | |
| Gastroprotective | Taylor, Leslie. 2005. The Healing Power of Rainforest Herbs. SquareOne Publisher, Garden City Park, NY. 519 pp. |
| Insectifuge | |
| Irritant | Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253. |
| Larvicide | |
| Mosquitocide | |
| Perfumery | Merck 11th Edition |
| Pesticide | |
| Sedative | |
| Termitifuge | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |

CARYOPHYLLENE-OXIDE Plant -- 14.0 -0.39 Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

Activities (8)

| | |
|--------------------------------------|--|
| Antiedemic | Shimizu,*M., et al. 1990. Anti-inflammatory Constituents of Topically Applied Crude Drugs. IV.1) Constituents and Anti-inflammatory Effect of Paraguayan Crude Drug 'Alhucema' (Lavandula latifolia Vill.)2). Chem. Pharm. Bull. 38(8): 2283-2284, 1990. |
| Antifeedant | Bettarini, F., Borgonovi, G.E., et al. 1991. Antiparasitic Compounds from East African Plants: Isolation and Biological Activity of Anonaine, Matricarianol, Canthin-6-One and Caryophyllene Oxide. Insect Sci. Applic. 14(1): 93-99, 1993. |
| Antiinflammatory | Shimizu,*M., et al. 1990. Anti-inflammatory Constituents of Topically Applied Crude Drugs. IV.1) Constituents and Anti-inflammatory Effect of Paraguayan Crude Drug 'Alhucema' (Lavandula latifolia Vill.)2). Chem. Pharm. Bull. 38(8): 2283-2284, 1990. |
| Antitumor | Zheng, G-Q., Kenney, P.M., and Lam, L.K.T. Sesquiterpenes From Clove (Eugenia caryophyllata) As Potential Anticarcinogenic Agents. Journal of Natural Products 55(7): 999-1003, 1992. |
| Calcium-Antagonist ED50=32 uM gpg | |
| Fungicide | |
| Insecticide | Bettarini, F., Borgonovi, G.E., et al. 1991. Antiparasitic Compounds from East African Plants: Isolation and Biological Activity of Anonaine, Matricarianol, Canthin-6-One and Caryophyllene Oxide. Insect Sci. Applic. 14(1): 93-99, 1993. |
| Pesticide | |

DELTA-CADINENE Plant -- 9.0 -0.5 Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

| Activities (9) | | | | | |
|-------------------------------|--|--|--|--|---|
| Aldose-Reductase-Inhibitor | | | | | |
| Antiacne | | | | | |
| Antibacterial MIC800 ug/ml | | | | | Muroi, H. and Kubo, I. 1993. Combination Effects of Antibacterial Compounds in Green Tea Flavor against Streptococcus mutans. J. Agric. Food Chem. 41: 1102-1105. |
| Anticarcinogenic MIC800 ug/ml | | | | | Muroi, H. and Kubo, I. 1993. Combination Effects of Antibacterial Compounds in Green Tea Flavor against Streptococcus mutans. J. Agric. Food Chem. 41: 1102-1105. |
| Antistreptococcic | | | | | |
| Cytochrome-P450-Inducer | | | | | |
| P450-Inducer | | | | | |
| Pesticide | | | | | |
| Testosterone-Inducer | | | | | |

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|--------------|-------|----|-------|-------|--|
| EO | Plant | -- | 300.0 | -0.72 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| GERMACRENE-D | Plant | -- | 19.0 | -0.41 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |

| Activities (2) | | | | | |
|----------------|--|--|--|--|--|
| Pesticide | | | | | |
| Pheromone | | | | | |

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|--------|-------|----|----|--|---|
| LIGNIN | Plant | -- | -- | | * |
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| Activities (13) | | | | | |
|---------------------|--|--|--|--|-------------------|
| AntiHIV | | | | | |
| Antibacterial | | | | | |
| Anticancer | | | | | |
| Anticoronary | | | | | |
| Antidiarrheic | | | | | Martindale's 29th |
| Antinitrosaminic | | | | | |
| Antioxidant | | | | | |
| Antitumor | | | | | |
| Antiviral | | | | | |
| Chelator | | | | | |
| Hypocholesterolemic | | | | | |
| Laxative | | | | | |
| Pesticide | | | | | |

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|--------------|-------|----|------|-------|--|
| LINALOL | Plant | -- | 26.0 | -0.43 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| RESIN | Plant | -- | -- | | * |
| SCUTELLAREIN | Plant | -- | -- | | * |

| Activities (7) | | | | | |
|--|--|--|--|--|---|
| Aldose-Reductase-Inhibitor IC56=10uM; IC10=1uM | | | | | Shimizu, M., Ito, T., Terashima, S., Hayashi, T., Arisawa, M., Morita, N., Kurokawa, S., Ito, K., and Hashimoto, Y. 1984. Inhibition of Lens Aldose Reductase by Flavonoids. Phytochemistry, 23: 1885-1888. |
| Antihemolytic | | | | | |
| Antileukemic IC50=10 uM | | | | | Economic & Medicinal Plant Research, 5: 225. |
| Antioxidant ED=uM | | | | | |
| Antiviral IC50=10 uM | | | | | Economic & Medicinal Plant Research, 5: 225. |
| Cancer-Preventive | | | | | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Phospholipase-A2-Inhibitor | | | | | Somasundaram, S., Sadique, J. 1985. Anti-hemolytic Effect of Flavonoidal Glycosides of Clerodendron inerme: An in vitro Study. Fitoterapia 57(2): 103, 1986. |

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|-------------|-------|----|----|--|---|
| SCUTELLARIN | Plant | -- | -- | | * |
| TANNIN | Plant | -- | -- | | * |

Activities (35)

| | |
|---|---|
| Anthelmintic | |
| AntiHIV | |
| Antibacterial | |
| Anticancer | |
| Anticariogenic | |
| Antidiarrheic | |
| Antidysenteric | |
| Antihepatotoxic | |
| Antihypertensive | |
| Antilipolytic | |
| Antimutagenic | |
| Antinephritic | Uchida, U., Ohta, H., Niwa, M., Mori, A., Nonaka, G-i., Nishioka, I., and Zaki, M. 1989. Prolongation of Life Span of Stroke-Prone Spontaneously Hypertensive Rats (SHRSP) Ingesting Persimmon Tannin. Chem. Pharm. Bull. 38(4): 1049-1052, 1990. |
| Antiphidic | Economic & Medicinal Plant Research, 5: 363. |
| Antioxidant IC50=1.44 ug/ml | |
| Antioxidant 1/3 quercetin | |
| Antiradicular 500 mg/kg/day orl mus | Uchida, U., Ohta, H., Niwa, M., Mori, A., Nonaka, G-i., Nishioka, I., and Zaki, M. 1989. Prolongation of Life Span of Stroke-Prone Spontaneously Hypertensive Rats (SHRSP) Ingesting Persimmon Tannin. Chem. Pharm. Bull. 38(4): 1049-1052, 1990. |
| Antiradicular 1/3 quercetin | |
| Antirenitic | Uchida, U., Ohta, H., Niwa, M., Mori, A., Nonaka, G-i., Nishioka, I., and Zaki, M. 1989. Prolongation of Life Span of Stroke-Prone Spontaneously Hypertensive Rats (SHRSP) Ingesting Persimmon Tannin. Chem. Pharm. Bull. 38(4): 1049-1052, 1990. |
| Antitumor | |
| Antitumor-Promoter | |
| Antiulcer | |
| Antiviral | |
| Cancer-Preventive | HerbalGram No. 22 - Spring 1990, page 14. |
| Carcinogenic | |
| Chelator | |
| Cyclooxygenase- Inhibitor | |
| Glucosyl- Transferase-Inhibitor | |
| Hepatoprotective | |
| Immunosuppressant | |
| Lipoxygenase- Inhibitor | |
| MAO-Inhibitor | |
| Ornithine- Decarboxylase- Inhibitor | |
| Pesticide | |
| Psychotropic | Uchida, U., Ohta, H., Niwa, M., Mori, A., Nonaka, G-i., Nishioka, I., and Zaki, M. 1989. Prolongation of Life Span of Stroke-Prone Spontaneously Hypertensive Rats (SHRSP) Ingesting Persimmon Tannin. Chem. Pharm. Bull. 38(4): 1049-1052, 1990. |
| Xanthine-Oxidase- Inhibitor | |