

List of All Chemicals

Canavalia eurycarpa (Fabaceae)

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 |
|---|---|---------|----------|--------|------------|
| GENISTEIN | Leaf Diffusate | -- | 5.0 | -0.6 | * |
| Activities (81) | | | | | |
| Abortifacient | Cooper-Driver, G. A., Chemical substances in plants toxic to animals, pp. 213-47 in Rechcigl, M., Jr., ed. CRC Handbook of Naturally Occurring Food Toxicants, CRC Press, Boca Raton, 1983, 339 pp. | | | | |
| Aldose-Reductase-Inhibitor IC50=10 uM | | | | | |
| Alpha-Reductase-Inhibitor IC50=35 uM | | | | | |
| Antiaggregant 1-10 ug/ml | Medline (post 1990 searches filed in my computer) | | | | |
| Antiangiogenic 150 uM | | | | | |
| Antiatherosclerotic | Journal of Medicinal Food 2: 163.1999. | | | | |
| Anticancer (Breast) IC50=2.6-6.7 ug/ml | | | | | |
| Anticarcinomic (Breast) IC50=7640 uM | Medline (post 1990 searches filed in my computer) | | | | |
| Anticlimacteric | Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705. | | | | |
| Antiendocytotic 100 ug/ml | Medline (post 1990 searches filed in my computer) | | | | |
| Antiestrogenic | | | | | |
| Antifertility | | | | | |
| Antihemolytic | | | | | |
| Antiimplantation | | | | | |
| Antiinflammatory | Journal of Medicinal Food 2: 179.1999. | | | | |
| Antiischemic | Medline (post 1990 searches filed in my computer) | | | | |
| Antileukemic >50 ug/ml (185 uM) | | | | | |
| Antileukemic IC50=0.010 ug/ml | Life Sciences 55: 1061. | | | | |
| Antileukotriene IC50=10-15 uM | Medline (post 1990 searches filed in my computer) | | | | |
| Antilymphomic | | | | | |
| Antimelanomic | Medline (post 1990 searches filed in my computer) | | | | |
| Antimicrobial | | | | | |
| Antimitogenic IC50=12 uM | | | | | |
| Antimutagenic ID50=50-100 nM | Maga, J.A. Contribution of Phenolic Compounds to Smoke Flavor. Phenolic Compounds in Food and Their Effects on Health, Ch.13. | | | | |
| Antineuroblastomic | | | | | |
| Antiosteoporotic | | | | | |
| Antioxidant | Phenolic Compounds in Food and Their Effects on Health, 64. | | | | |
| Antiproliferative 5-45 uM | | | | | |
| Antiprostataenomic 8-27 ug/ml | Medline (post 1990 searches filed in my computer) | | | | |
| Antiprostatic IC50=35 uM | | | | | |
| Antispasmodic IC50=34 uM | | | | | |
| Antitumor (Breast) | | | | | |
| Antitumor (GI) | | | | | |
| Antitumor (Ovary) | | | | | |
| Antitumor (Prostate) | | | | | |
| Antitumor (Stomach) | | | | | |
| Antiulcer? | | | | | |
| Antiviral | | | | | |
| Apoptotic | | | | | |
| Aromatase-Inhibitor IC30=1 uM/l | Journal of Medicinal Food 2: 235.1999. | | | | |
| Calcium-Antagonist 50 uM gpg | | | | | |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. | | | | |
| Cardioprotective | Journal of Medicinal Food 2: 163.1999. | | | | |

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|--|---|
| Catechol-O-Methyltransferase-Inhibitor | |
| Cytotoxic >50 ug/ml (185 uM) | Medline (post 1990 searches filed in my computer) |
| Cytotoxic IC89=10 ug/ml | Planta Medica, 57: A113, 1991. |
| DOPA-Decarboxylase-Inhibitor | |
| Estrogen-Agonist 0.1-1 uM/l | Journal of Medicinal Food 2: 139.1999. |
| Estrogenic EC50=0.1-25 uM/l | |
| Flatulent | |
| Fungicide 2.5 mM | Geibel, M. 1994. Sensitivity of the Fungus <i>Cytospora personii</i> to the Flavonoids of <i>Prunus cerasus</i> . <i>Phytochemistry</i> . 38(3): 599-601. 1995. |
| Fungicide ED50=50->100 | |
| Fungistat IC34=200 uM | |
| Histidine-Kinase-Inhibitor IC50=110 uM | Medline (post 1990 searches filed in my computer) |
| Hypocholesterolemic ED50=0.5 mg/kg | |
| Immunostimulant 2-20 mg/kg orl mus | |
| Lipase-Inhibitor | |
| MAO-Inhibitor IC50=60-140 uM | |
| MAO-Inhibitor IC50=95 | |
| MDR-Inhibitor 200 uM | Castro, A. F., Altenberg, G. A. 1997. Inhibition of Drug Transport by Genistein in Multidrug-Resistant Cell Expressing P-Glycoprotein. <i>Biochem Pharmacol</i> , 53(1): 89-93. |
| NADH-Ubiquinone-Oxidoreductase-Inhibitor | |
| Natriuretic | |
| Ornithine-Decarboxylase-Inhibitor | |
| PTK-Inhibitor 10-100 uM | |
| Peroxidase-Inhibitor | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp. |
| Pesticide | |
| Phytoalexin | Nigg, H.N. and Seigler, D.S., eds. 1992. <i>Phytochemical Resources for Medicine and Agriculture</i> . Plenum Press, New York. 445 pp. |
| Pituitary-sensitizer | Medline (post 1990 searches filed in my computer) |
| Quinone-Reductase-Inducer IC50=4.6 ug/ml | |
| Topoisomerase-I-Inhibitor IC50=250 ppm | |
| Topoisomerase-I-Inhibitor 1-10 ug/ml | Okura, A., Arakawa, H., Oka, H., Yoshinari, T., Monden, Y. 1988. Effect of Genistein on Topoisomerase Activity and on the Growth of [VAL 12]HA-RAS-Transformed NIH 3T3 Cells. <i>Biochem Biophys Res Commun</i> , 157: 183-189. |
| Topoisomerase-II-Inhibitor IC50=1-150 uM | |
| Topoisomerase-II-Inhibitor 2-7.5 ug/ml | |
| Topoisomerase-II-Inhibitor IC50=30 ug/ml | Constantinou, A., Mehta, R., Runyan, C., Rao, K., Vaughan, A., Moon, R. 1995. Flavonoids as DNA Topoisomerase Antagonists and Poisons: Structure-Activity Relationships. <i>J Natural Products</i> , 58: 217-225. |
| Topoisomerase-II-Inhibitor 20 uM | Markovits, J., et al. 1989. Inhibitory Effects of the Tyrosine Kinase Inhibitor Genistein on Mammalian DNA Topoisomerase II. <i>Cancer Research</i> , 49: 5111-5117. |
| Topoisomerase-II-Poison | Journal of Medicinal Food 2: 167.1999. |
| Trypanosomastat | Medline (post 1990 searches filed in my computer) |
| Tyrosine-Kinase-Inhibitor | |
| Uterotrophic ED50=0.5 mg/kg | |
| Uterotrophic EC50=0.1-25 uM/l | |
| VEGF-Inhibitor | |