

List of All Chemicals

P Helianthemum glomeratum (Cistaceae)

*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 | Low PPM | High PPM | StdDev | *Reference |
|--|------|---------|----------|--------|---|
| (-)- EPIGALLOCATECHIN | Root | -- | -- | | Meckes, M., Calzada, F., Tapia-Contreras, A., Cedillo-Rivera, R. 1999. Antiprotozoal Properties of Helianthemum glomeratum. Phytotherapy Research, 13(2): 102-105. |
| Activities (21) | | | | | |
| ACE-Inhibitor | | | | | |
| Aldose-Reductase-Inhibitor | | | | | |
| Antiacne | | | | | |
| Antiamoebic | | | | | Meckes, M., Calzada, F., Tapia-Contreras, A., Cedillo-Rivera, R. 1999. Antiprotozoal Properties of Helianthemum glomeratum. Phytotherapy Research, 13(2): 102-105. |
| Antibacterial | | | | | |
| Anticarcinogenic | | | | | |
| Anticaries | | | | | |
| Antigiardial | | | | | Meckes, M., Calzada, F., Tapia-Contreras, A., Cedillo-Rivera, R. 1999. Antiprotozoal Properties of Helianthemum glomeratum. Phytotherapy Research, 13(2): 102-105. |
| Antimutagenic | | | | | |
| Antioxidant IC50=1.4 ug/ml | | | | | |
| Antioxidant IC50=2.3 uM | | | | | |
| Antiradicular | | | | | |
| Antistreptococic | | | | | |
| Beta-Adrenergic Receptor Blocker 10 uM | | | | | Zhu, M., Phillipson, J. D., Greengrass, P. M., Bowery, N. E., Cai, Y. 1997. Plant Polyphenols: Biologically Active Compounds or Non-Selective Binders to Protein? Phytochemistry, 44(3): 441-447. |
| COMP-Inhibitor | | | | | Dullo, A. G., et al. 1999. Efficacy of a green tea extract rich in catechin polyphenols and caffeine in increasing 24-h energy expenditure and fat oxidation in humans. Am. J. Clinical Nutrition, 70: 1040-1045. |
| Lipoxygenase-Inhibitor IC50=21 uM | | | | | Phenolic Compounds in Food and Their Effects on Health. Antioxidants & Cancer Prevention. Huang, M.T., Ho, C.T. and Lee, C.Y. eds. 1992. ACS Symposium Series 507.ACS, Washington 402 pp. |
| Neuroprotective 400 uM | | | | | |
| Peroxytrite-Scavenger IC50=0.228 ug/ml | | | | | |
| Pesticide | | | | | |
| Protisticide | | | | | Meckes, M., Calzada, F., Tapia-Contreras, A., Cedillo-Rivera, R. 1999. Antiprotozoal Properties of Helianthemum glomeratum. Phytotherapy Research, 13(2): 102-105. |
| Xanthine-Oxidase-Inhibitor IC50=>40 | | | | | Hatano, T., Yasuhara, T., Yoshihara, R., Agata, I., Noro, T., and Okuda, T. 1989. Effects of Interaction of Tannins with Co-existing Substances.VII. Inhibitory Effects of Tannins Related Polyphenols on Xanthine Oxidase. Chem. Pharm. Bull. 38(5): 1224-1229 |
| (-)- EPIGALLOCATECHIN- GALLATE | Root | -- | -- | | Meckes, M., Calzada, F., Tapia-Contreras, A., Cedillo-Rivera, R. 1999. Antiprotozoal Properties of Helianthemum glomeratum. Phytotherapy Research, 13(2): 102-105. |

Activities (41)

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|--|--|
| Acetyl-CoA-Carboxylase-Inhibitor IC50=311 uM | McKenna, D. J., Hughes, K., and Jones, K. 2000. Green Tea Monograph. <i>Alternative Therapies</i> , 6(3): 61-82. |
| Aldose-Reductase-Inhibitor | |
| Allergenic | McKenna, D. J., Hughes, K., and Jones, K. 2000. Green Tea Monograph. <i>Alternative Therapies</i> , 6(3): 61-82. |
| AntiMRSA 32-64 ppm | McKenna, D. J., Hughes, K., and Jones, K. 2000. Green Tea Monograph. <i>Alternative Therapies</i> , 6(3): 61-82. |
| Antiacne | |
| Antiaggregant 450 uM | |
| Antiallergic | McKenna, D. J., Hughes, K., and Jones, K. 2000. Green Tea Monograph. <i>Alternative Therapies</i> , 6(3): 61-82. |
| Antiangiogenic | McKenna, D. J., Hughes, K., and Jones, K. 2000. Green Tea Monograph. <i>Alternative Therapies</i> , 6(3): 61-82. |
| Antibacterial | |
| Anticancer IC90=1 uM | McKenna, D. J., Hughes, K., and Jones, K. 2000. Green Tea Monograph. <i>Alternative Therapies</i> , 6(3): 61-82. |
| Anticariogenic | |
| Antihepatotoxic | Okuda, T., Yoshida, T., and Hatano, T. Antioxidant Effects of Tannins and Related Polyphenols. <i>Phenolic Compounds in Food and Their Effects on Health</i> , Ch.7 p.93. |
| Antileukemic | McKenna, D. J., Hughes, K., and Jones, K. 2000. Green Tea Monograph. <i>Alternative Therapies</i> , 6(3): 61-82. |
| Antimutagenic | |
| Antiobesity | |
| Antioxidant >10 x tocopherol | |
| Antiperoxidant | Okuda, T., Yoshida, T., and Hatano, T. Antioxidant Effects of Tannins and Related Polyphenols. <i>Phenolic Compounds in Food and Their Effects on Health</i> , Ch.7 p.93. |
| Antiprostataedemic IC90=1 uM | McKenna, D. J., Hughes, K., and Jones, K. 2000. Green Tea Monograph. <i>Alternative Therapies</i> , 6(3): 61-82. |
| Antiradicular | |
| Antitumor | |
| Antiulcer | |
| Antiviral | |
| Apoptotic | McKenna, D. J., Hughes, K., and Jones, K. 2000. Green Tea Monograph. <i>Alternative Therapies</i> , 6(3): 61-82. |
| COMP-Inhibitor | Dullo, A. G., et al. 1999. Efficacy of a green tea extract rich in catechin polyphenols and caffeine in increasing 24-h energy expenditure and fat oxidation in humans. <i>Am. J. Clinical Nutrition</i> , 70: 1040-1045. |
| Cyclooxygenase-Inhibitor | McKenna, D. J., Hughes, K., and Jones, K. 2000. Green Tea Monograph. <i>Alternative Therapies</i> , 6(3): 61-82. |
| Cytotoxic | McKenna, D. J., Hughes, K., and Jones, K. 2000. Green Tea Monograph. <i>Alternative Therapies</i> , 6(3): 61-82. |
| Fungicide | |
| GTase-Inhibitor IC26=100 ug/ml | |
| Glucosyl-Transferase-Inhibitor | |
| Hepatoprotective | McKenna, D. J., Hughes, K., and Jones, K. 2000. Green Tea Monograph. <i>Alternative Therapies</i> , 6(3): 61-82. |
| Hypocholesterolemic | |
| Immunostimulant | McKenna, D. J., Hughes, K., and Jones, K. 2000. Green Tea Monograph. <i>Alternative Therapies</i> , 6(3): 61-82. |
| Lipoxygenase-Inhibitor IC50=10 uM | Phenolic Compounds in Food and Their Effects on Health. Antioxidants & Cancer Prevention. Huang, M.T., Ho, C.T. and Lee, C.Y. eds. 1992. ACS Symposium Series 507.ACS, Washington 402 pp. |
| Mitogen | |
| PTK-Inhibitor 10-100 uM | |
| Protein-Kinase-C-Inhibitor | McKenna, D. J., Hughes, K., and Jones, K. 2000. Green Tea Monograph. <i>Alternative Therapies</i> , 6(3): 61-82. |
| Radioprotective | |
| Reverse-Transcriptase-Inhibitor 10 ng/ml | McKenna, D. J., Hughes, K., and Jones, K. 2000. Green Tea Monograph. <i>Alternative Therapies</i> , 6(3): 61-82. |
| Thermogenic | |
| Urokinase-Inhibitor | McKenna, D. J., Hughes, K., and Jones, K. 2000. Green Tea Monograph. <i>Alternative Therapies</i> , 6(3): 61-82. |
| Xanthine-Oxidase-Inhibitor IC50=>40 | Hatano, T., Yasuhara, T., Yoshihara, R., Agata, I., Noro, T., and Okuda, T. 1989. Effects of Interaction of Tannins with Co-existing Substances.VII. Inhibitory Effects of Tannins Related Polyphenols on Xanthine Oxidase. <i>Chem. Pharm. Bull.</i> 38(5): 1224-1229 |

KAEMPFEROL Leaf -- -- Meckes, M., Calzada, F., Tapia-Contreras, A., Cedillo-Rivera, R. 1999. Antiprotozoal Properties of *Helianthemum glomeratum*. *Phytotherapy Research*, 13(2): 102-105.

Activities (75)

| | |
|---------------------------------------|--|
| 11B-HSD-Inhibitor | |
| 5-Lipoxygenase-Inhibitor IC50 (uM)=20 | |
| Aldose-Reductase-Inhibitor 100 uM | Oliveira, T. T., Nagem, T. J., Miranda, L. C. G., Paula, V. F., Teixeira, M. A. 1997. Inhibitory Action on Aldose Reductase by Soybean Flavonoids. <i>J Braz Chem Soc</i> , 8(3): 211-213. |
| Antiaflatoxin IC50=8.73 uM | |
| Antiaflatoxin IC50=3.28 ppm | |
| Antiaggregant 30 uM | |
| Antiallergic | |
| Antibacterial 20 ug/ml | |
| Anticancer | |

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|---|---|
| Antifertility 250 mg/kg/day/60 days/orl rat | Kumar, P., Dixit*, V.P., and Khanna, P. Antifertility Studies of Kaempferol: Isolation and Identification from Tissue Culture of some Medicinally Important Plant Species. <i>Plantes medicinales et phytotherapie</i> , 23: 193-201, 1989. |
| Antigingivitic 20 ug/ml | |
| Antiherpetic 23-92 ug/ml | Amoros, M., Simoes, C.M.O., Girre, L., et al. Synergistic Effect Of Flavones And Flavonols Against Herpes Simplex Virus Type 1 In Cell Culture. Comparison With The Antiviral Activity Of Propolis. <i>J. of Natural Products</i> 55(12):1732-1740, 1992. |
| Antihistaminic | Williamson, E. M. and Evans, F. J., <i>Potter's New Cyclopaedia of Botanical Drugs and Preparations</i> , Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989. |
| Antiimplantation | |
| Antiinflammatory 20 mg/kg | |
| Antiinflammatory 200 mg/kg ipr rat | |
| Antileukemic IC50=3.1 ug/ml | <i>Life Sciences</i> 55: 1061. |
| Antilymphocytic | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp. |
| Antimutagenic ID50=10-40 nM | Phenolic Compounds in Food and Their Effects on Health. <i>Antioxidants & Cancer Prevention</i> . Huang, M.T., Ho, C.T. and Lee, C.Y. eds. 1992. ACS Symposium Series 507.ACS, Washington 402 pp. |
| Antioxidant IC50=40 uM | |
| Antioxidant 3/4 quercetin | |
| Antioxidant IC50=1.2 ug/ml | |
| Antiperiodontic 20 ug/ml | |
| Antiplaque 20 ug/ml | |
| Antiradicular 7 x quercetin | |
| Antiseptic 20 ug/ml | |
| Antiserotonin 200 mg/kg ipr rat | |
| Antispasmodic | Williamson, E. M. and Evans, F. J., <i>Potter's New Cyclopaedia of Botanical Drugs and Preparations</i> , Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989. |
| Antistaphylococcic | |
| Antitumor | |
| Antitumor-Promoter | Yasukawa, K., Takido, M., Takeuchi, M., Sato, Y., Nitta, K., and Nakagawa, S. 1989. Inhibitory Effects of Flavonol Glycosides on 12-O-Tetradecanoylphorbol-13-acetate-Induced Tumor Promotion. <i>Chem. Pharm. Bull.</i> 38(3): 774-776, 1990. |
| Antiulcer 50-200 mg/kg ipr rat | |
| Antiviral 23-92 ug/ml | |
| Apoptotic 60 uM | |
| Aromatase-Inhibitor IC12=1 uM/l | <i>Journal of Medicinal Food</i> 2: 235.1999. |
| COX-2-Inhibitor | |
| Cancer-Preventive | Stitt, P. A. <i>Why George Should Eat Broccoli</i> . Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Carcinogenic | Hutchings, A, Scott, AH, Lewis, G, and Cunningham, A. 1996. <i>Zulu Medicinal Plants. An inventory</i> . University of Natal Press, Pietermaritzburg. 450 pp. |
| Choleretic | Leung, A. Y. and Foster, S. 1995. <i>Encyclopedia of Common Natural Ingredients</i> 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| Copper-Chelator | |
| Cyclooxygenase-Inhibitor IC50 (uM) =20 | |
| Cytotoxic | |
| Diaphoretic? | <i>Lawrence Review of Natural Products</i> , Dec-90. |
| Diuretic | |
| Estrogenic EC50=0.1-25 uM/l | <i>Journal of Medicinal Food</i> 2: 227.1999. |
| Estrogenic EC50=0.56 uM | |
| Fungicide 20 ug/ml | Father Nature's Farmacy: The aggregate of all these three-letter citations. |
| HIV-RT-Inhibitor IC50=50-150 ug/ml | Garcia, J., Morin,* C., Nyasse, B., Sondengam, B-L., Tchouankeu, J-C., and Tsamo, E. Complete Structural Assignments Of An Ergosterol Derivative From <i>Entandrophragma utile</i> . <i>Journal of Natural Products</i> , 54(1): 136-142, 1991. |
| Hepatoprotective IC50=5.46 uM | |
| Hepatoprotective IC50=1.30 ppm | |
| Hypotensive | |
| ICAM-1-Inhibitor | |
| Inotropic | |
| Iodothyronine-Deiodinase-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. |
| JNK-Inhibitor | |
| Lipoxygenase-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. |
| MAO-Inhibitor | |
| Mutagenic | |
| NO-Inhibitor IC50=13.9 uM | |
| Natriuretic | |
| Neuroprotective | |

PAF-Inhibitor

Pesticide

Protisticide Meckes, M., Calzada, F., Tapia-Contreras, A., Cedillo-Rivera, R. 1999. Antiprotozoal Properties of Helianthemum glomeratum. Phytotherapy Research, 13(2): 102-105.

Quinone-Reductase-Inducer 3 uM

TNF-alpha-Inhibitor IC50=3.99 uM

Teratologic

Topoisomerase-I-Inhibitor Santti, R., Makela, S., Strauss, L., Korman, J., Kostian, M. L. 1998. Phytoestrogens: Potential Endocrine Disruptors in Males. Toxicol Ind Health, 14: 223-237.

Topoisomerase-II-Inhibitor IC50=8.1 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. J Natural Products, 58: 217-225.

Tyrosinase-Inhibitor ID50=230 uM

Uterotrophic EC50=0.1-25 uM/l Journal of Medicinal Food 2: 227.1999.

Vasodilator

cAMP-Phosphodiesterase-Inhibitor

iNOS-Inhibitor IC50=<15 uM

iNOS-Inhibitor IC50=13.9 uM

TILIROSIDE Leaf -- -- Meckes, M., Calzada, F., Tapia-Contreras, A., Cedillo-Rivera, R. 1999. Antiprotozoal Properties of Helianthemum glomeratum. Phytotherapy Research, 13(2): 102-105.

Activities (3)

AntiHIV

Diaphoretic

Protisticide Meckes, M., Calzada, F., Tapia-Contreras, A., Cedillo-Rivera, R. 1999. Antiprotozoal Properties of Helianthemum glomeratum. Phytotherapy Research, 13(2): 102-105.