

List of All Chemicals

P Symplocos racemosa (Symplocaceae)

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 | All | Low PPM | High PPM | StdDev | *Reference |
|---|-----------|-----|---------|----------|--------|--|
| BETULIN | Stem Bark | | -- | -- | | Jim Duke's personal files. |
| Activities (13) | | | | | | |
| AntiHIV 6.1 uM | | | | | | |
| Anticarcinomic | | | | | | |
| Antifeedant | | | | | | |
| Antiflu | | | | | | |
| Antiinflammatory | | | | | | Recio, M., et al. 1994. Investigations on the Steroidal Anti-Inflammatory Activity of Triterpenoids from Diospyros leucomelas*. Planta Medica, 61: 9. |
| Antitumor | | | | | | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Antiviral 6.1 uM | | | | | | |
| Aphidifuge | | | | | | Lugemwa, F.N., Huang, F-Y., Bentley, M.D., Mendel, M.J., and Alford, A.R. 1990. A Heliothis zea Antifeedant from the Abundant Birchbark Triterpene Betulin. J. Agric. Food Chem. 38(2): 493-494. |
| Cytotoxic 600 ppm | | | | | | |
| Cytotoxic 8.6 uM | | | | | | |
| Hypolipemic | | | | | | |
| Prostaglandin-Synthesis-Inhibitor IC50=119 uM | | | | | | Huang, C., Tunon, H., Bohlin, L. 1995. Anti-Inflammatory Compounds Isolated from Menyanthes trifoliata L. Yao Hsueh Hsueh Pao, 30(8): 621-626. |
| Topoisomerase-II-Inhibitor IC50=38.6 uM | | | | | | |
| BETULINIC-ACID | Plant | | -- | -- | | Jim Duke's personal files. |
| Activities (22) | | | | | | |
| Anthelmintic | | | | | | |
| AntiHIV EC50=2.0 ug/ml | | | | | | Kashiwada, Y., et. al. 1998. Anti-AIDS Agents. 30. Anti-HIV Activity of Oleanolic Acid, Pomolic Acid, and Structurally Related Triterpenoids. J. Nat. Prod., 61 (9): 1090-1095. |
| AntiHIV IC50=6.5 ug/ml | | | | | | |
| AntiHIV 14.8 uM | | | | | | |
| Antibacterial | | | | | | |
| Anticancer | | | | | | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Anticarcinomic | | | | | | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Antiedemic | | | | | | |
| Antiinflammatory | | | | | | Recio, M., et al. 1994. Investigations on the Steroidal Anti-Inflammatory Activity of Triterpenoids from Diospyros leucomelas*. Planta Medica, 61: 9. |
| Antileukemic | | | | | | |
| Antimalarial IC50=19-26 ug/ml | | | | | | |
| Antimelanomic | | | | | | New York Times, 3/28/95. |
| Antinociceptive | | | | | | |
| Antiplasmodial IC50=19-26 ug/ml | | | | | | |
| Antitumor | | | | | | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Antiviral 14.8 uM | | | | | | |
| Apoptotic | | | | | | |
| Cytotoxic 50-100 ppm | | | | | | Biosyn. Prod. Cancer Chemotherapy (Petit et al) |
| Cytotoxic 16.4 uM | | | | | | |
| Phospholipase-A2-Inhibitor | | | | | | |
| Prostaglandin-Synthesis-Inhibitor 200 ug/ml | | | | | | Dunstan, C. A., Liu, B., Welch, C. J., Perera, P., Bohlin, L. 1998. Alphitol, a Phenolic Substance from Alphonis zizyphoides which Inhibits Prostaglandin Biosynthesis in vitro. Phytochemistry, 48(3): 495-497. |
| Prostaglandin-Synthesis-Inhibitor IC50=101 uM | | | | | | Huang, C., Tunon, H., Bohlin, L. 1995. Anti-Inflammatory Compounds Isolated from Menyanthes trifoliata L. Yao Hsueh Hsueh Pao, 30(8): 621-626. |