

List of All Chemicals

P Betula populifolia (Betulaceae)

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	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