

List of All Chemicals

P Platanus orientalis (Platanaceae)

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	Low PPM	High PPM	StdDev	*Reference
BETULINIC-ACID	Pericarp	--	--		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.
BETULINIC-ACID	Exocarp	--	--		Pavannasivam, G., & M.U.S. Sultanbawa. 1974. Betulinic acid in the Dilleniaceae and a review of its natural distribution. Phytochem. 13:2002-2006.

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BETULINIC- Bark -- 17500.0 1.67 Pavannasasivam, G., & M.U.S. Sultanbawa. 1974. Betulinic acid in the Dilleniaceae and a review of its natural distribution. Phytochem. 13:2002-2006.

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