

List of All Chemicals

P Ampelozizyphus amazonicus (Rhamnaceae)

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 parts ...	Low PPM	High PPM	StdDev	*Reference
BETULIN	Root		--	--		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*. <i>Planta Medica</i> , 61: 9.				
Antitumor		Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.</i> 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. <i>J. Agric. Food Chem.</i> 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. <i>Yao Hsueh Hsueh Pao</i> , 30(8): 621-626.				
Topoisomerase-II-Inhibitor IC50=38.6 uM						

BETULINIC-ACID	Root		--	--		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. <i>J. Nat. Prod.</i> , 61 (9): 1090-1095.				
AntiHIV IC50=6.5 ug/ml						
AntiHIV 14.8 uM						
Antibacterial						
Anticancer		Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.</i> Taylor & Frost, London. 791 pp.				
Anticarcinomic		Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.</i> Taylor & Frost, London. 791 pp.				
Antiedemic						
Antiinflammatory		Recio, M., et al. 1994. Investigations on the Steroidal Anti-Inflammatory Activity of Triterpenoids from Diospyros leucomelas*. <i>Planta Medica</i> , 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. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.</i> 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. <i>Phytochemistry</i> , 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. <i>Yao Hsueh Hsueh Pao</i> , 30(8): 621-626.				