

List of All Chemicals

P

Akania luceus (Akaniaceae)

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
	All				
BETULINIC-ACID	Bark	--	200.0	-0.67	Pavannasasivam, G., & M.U.S. Sultanbawa. 1974. Betulinic acid in the Dilleniaceae and a review of its natural distribution. Phytochem. 13:2002-2006.
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 Alphonidia 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	Bark	--	200.0	-0.67	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

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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 *Alphitonia 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.