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Product Information

Chemical Name Synonym Astrantiagenin C, Caryophyllin, Giganteumgenin C, Oleanic acid, Virgaureagenin Synonym Astrantiagenin C, Caryophyllin, Giganteumgenin C, Oleanic acid, Virgaureagenin Formula C₃₀H₄₈O₃ Formula V. 456.71 Melting Point 310°C Purity ≥98% Solubility Soluble in ether, acetone, chloroform or ethanol. Insoluble in water.

Store Temp Ambient

Product ID 04417 CAS No. 508-02-1

Ship Temp Ambient

Description Oleanolic acid is a triterpenoid originally found in *Vigna angularis* and *Trigonella foenum-graecum*. Oleanolic acid exhibits anticancer, anti-inflammatory, anti-allergic, anti-resorptive, and anti-osteoporotic activities. In hypertrophic scar fibroblasts, oleanolic acid induces mitochondria-dependent apoptosis through the activation of p38 MAPK and JNK and increases in caspase expression. In melanoma cells, oleanolic acid decreases cell viability by inducing caspase 3-mediated apoptosis and inhibiting activity of EGFR. Additionally, in animal models, this compound inhibits eosinophil infiltration, airway inflammation, and production of IL-5, IL-13, IL-17, and IgE; this is through to be mediated by upregulation of Foxp3 and downregulation of GATA-3 and RORyt. In bone marrow macrophages, oleanolic acid inhibits RANKL-induced osteoclast differentiation and mature osteoclast differentiation; it also inhibits LPS-induced bone erosion in animal models.

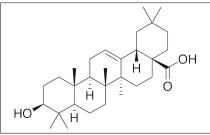
References Chen JY, Zhang L, Zhang H, et al. Triggering of p38 MAPK and JNK Signaling is Important for Oleanolic Acid-Induced Apoptosis via the Mitochondrial Death Pathway in Hypertrophic Scar Fibroblasts. Phytother Res. 2014 Apr 6. [Epub ahead of print]. PMID: 24706573.

Ghosh S, Bishayee K, Khuda-Bukhsh AR. Oleanolic acid isolated from ethanolic extract of Phytolacca decandra induces apoptosis in A375 skin melanoma cells: drug-DNA interaction and signaling cascade. J Integr Med. 2014 Mar;12(2):102-14.PMID: 24666676.

Kim JY, Cheon YH, Oh HM, et al. Oleanolic acid acetate inhibits osteoclast differentiation by downregulating $PLC\gamma2$ -Ca(2+)-NFATc1 signaling, and suppresses bone loss in mice. Bone. 2014 Mar;60:104-11. PMID: 24361669.

Kim SH, Hong JH, Lee YC. Oleanolic acid suppresses ovalbumin-induced airway inflammation and Th2-mediated allergic asthma by modulating the transcription factors T-bet, GATA-3, RORyt and Foxp3 in asthmatic mice. Int Immunopharmacol. 2014 Feb;18(2):311-24. PMID: 24374304.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.



Bulk quanitites available upon request

Product ID	Size
O4417	100 mg
O4417	500 mg
O4417	1 g