Data Sheet (Cat.No.T2865)

TargetMol

Oleanolic Acid

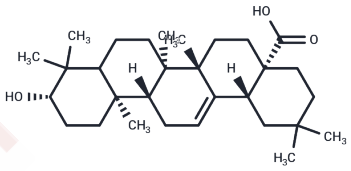
Chemical Properties

CAS No. : 508-02-1

Formula: C30H48O3

Molecular Weight: 456.70

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.



Biological Description

Description	Oleanolic Acid (Caryophyllin) is a natural compound with anti-tumor activities, which are widely distributed in plants.
Targets(IC50)	MAPK,HIV Protease,Endogenous Metabolite,Antibiotic,Autophagy
In vitro	Oleanolic acid can effectively protect experimental animals from chemical-induced hepatic damage.
In vivo	Oleanolic acid exhibits weak anti-HIV and anti-hepatitis C virus activities; however, more potent synthetic analogues are currently under investigation as potential pharmaceuticals.

Solubility Information

Solubility	DMSO: 8.10 mg/mL (17.74 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 0.5 mg/mL (1.09 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1896 mL	10.9481 mL	21.8962 mL
5 mM	0.4379 mL	2.1896 mL	4.3792 mL
10 mM	0.219 mL	1.0948 mL	2.1896 mL
50 mM	0.0438 mL	0.219 mL	0.4379 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Liu J, J Ethnopharmacol, 1995, 49(2), 57-68.
Jung D H, Lee A, Hwang Y H, et al.Therapeutic effects of Pulsatilla koreana Nakai extract on ovalbumin-induced allergic rhinitis by inhibition of Th2 cell activation and differentiation via the IL-4/STAT6/GATA3 pathway. Biomedicine & Pharmacotherapy.2023, 162: 114730.
Mengoni F, Planta Med, 2002, 68(2), 111-114.
Li W, Mei W, Jiang H, et al.Blocking the PD-1 signal transduction by occupying the phosphorylated ITSM recognition site of SHP-2.Science China Life Sciences.2024: 1-15.