

3-Epiursolic acid

Chemical Properties

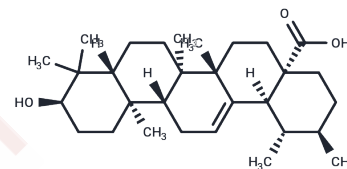
CAS No. : 989-30-0

Formula: C₃₀H₄₈O₃

Molecular Weight: 456.7

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	3-Epiursolic acid may have antiinflammatory activity, it shows inhibition on Cathepsins L (catL), the IC ₅₀ value of 6.5 μM, cathepsins L (catL) and B play an important role in tumor progression and have been considered promising therapeutic targets in the development of novel anticancer agents.
Targets(IC ₅₀)	Cysteine Protease, Immunology/Inflammation related
In vitro	All three extracts were found to exhibit antiinflammatory activity with the chloroform extract being the most active. Chemical investigations of petroleum ether and chloroform extracts led to the isolation of beta-sitosterol, ursolic acid, oleanolic acid, 3-Epiursolic acid, 3-epioleanolic acid, and minor triterpenoids of derivatives of ursolic acid and oleanolic acids. Chromatographic purification of the methanol extract yielded two iridoid glucosides, verbenalin and hastatoside, a phenylpropanoid glycoside, verbascoside and beta-sitosterol-D-glucoside.

Solubility Information

Solubility	DMSO: 45 mg/mL (98.53 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 1.5 mg/mL (3.28 mM), Sonication is recommended. <i>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.</i>

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

Antiinflammatory activity and chemical composition of extracts of *Verbena officinalis*. *Phytother Res.* 2000 Sep;14(6):463-5.

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