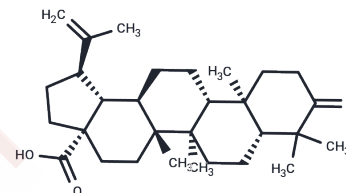


Betulonic acid

Chemical Properties

CAS No. :	4481-62-3
Formula:	C ₃₀ H ₄₆ O ₃
Molecular Weight:	454.68
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	1. Betulonic acid (Liquidambaric acid) amide stimulated the regenerative response in hepatocytes under conditions of combined toxic exposure and promoted recovery of their qualitative and quantitative characteristics, which was accompanied by a significant decrease in the severity of liver fibrosis and the absence of cirrhotic transformation of the liver. 2. Betulonic acid derivatives have a promising cytostatic activity in vitro and could be used as potential leads for the development of new type of anti-cancer agents. 3. Betulonic acid has antiholestatic effects in mice.
Targets(IC50)	Parasite,HSV

Solubility Information

Solubility	DMSO: 4.85 mg/mL (10.67 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 0.49 mg/mL (1.08 mM),Solution. <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	2.1993 mL	10.9967 mL	21.9935 mL
5 mM	0.4399 mL	2.1993 mL	4.3987 mL
10 mM	0.2199 mL	1.0997 mL	2.1993 mL
50 mM	0.044 mL	0.2199 mL	0.4399 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

Pavlova N I , Savinova O V , Nikolaeva S N , et al. Antiviral activity of betulin, betulinic and betulonic acids against some enveloped and non-enveloped viruses[J]. *Fitoterapia*, 2003, 74(5):489-492.

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.

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