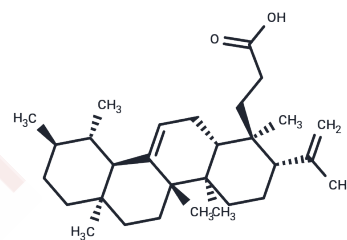


Roburic acid

Chemical Properties

CAS No. :	6812-81-3
Formula:	C ₃₀ H ₄₈ O ₂
Molecular Weight:	440.70
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Roburic acid and phenethyl-trans-ferulate inhibit COX-1 and COX-2.
Targets(IC50)	COX

Solubility Information

Solubility	DMSO: 60.00 mg/mL (136.15 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2.5 mg/mL (5.67 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	2.2691 mL	11.3456 mL	22.6912 mL
5 mM	0.4538 mL	2.2691 mL	4.5382 mL
10 mM	0.2269 mL	1.1346 mL	2.2691 mL
50 mM	0.0454 mL	0.2269 mL	0.4538 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

Cao H, et al. Discovery of cyclooxygenase inhibitors from medicinal plants used to treat inflammation. *Pharmacol Res.* 2010 Jun;61(6):519-24.

Wei H, Guo J, Sun X, et al. Discovery of Natural Ursane-type SENP1 Inhibitors and the Platinum Resistance Reversal Activity Against Human Ovarian Cancer Cells: A Structure-Activity Relationship Study. *Journal of Natural Products.* 2022

Chen QL, et al. [Studies on the chemical constituents in root of *Gentiana macrophylla* from Shaanxi]. *Zhongguo Zhong Yao Za Zhi.* 2005 Oct;30(19):1519-22.

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