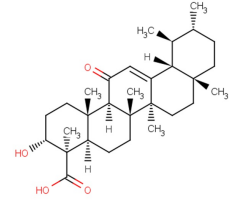


Data Sheet (Cat.No.TN1182)

11-Keto-beta-boswellic acid

Chemical Properties

CAS No.:	17019-92-0
Formula:	C30H46O4
Molecular Weight:	470.68
Appearance:	neat
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	11-Keto-beta-boswellic acid, a novel Nrf2 activator, and a selective 5-lipoxygenase (5-LOX) inhibitor; it exerts dose dependent cardioprotective effect manifested by dose-dependent reduction in serum lactate dehydrogenase
Targets(IC ₅₀)	NO Synthase: None 5-LOX: None PI3K: None Akt: None NF-κB: None leukotriene receptor: None
In vitro	A total of ten transformed compounds were isolated and purified, and their chemical structures were characterized as 7β-hydroxy-11-keto-β-boswellic acid; 7β, 15α±-dihydroxy-11-keto-β-boswellic acid; 7β, 16β-dihydroxy-11-keto-β-boswellic acid; 7β, 16α±-dihydroxy-11-keto-β-boswellic acid; 7β, 22β-dihydroxy-11-keto-β-boswellic acid; 7β, 21β-dihydroxy-11-keto-β-boswellic acid; 7β, 20β-dihydroxy-11-keto-β-boswellic acid; 7β, 30-dihydroxy-11-keto-β-boswellic acid; 3α±, 7β-dihydroxy-11-oxours-12-ene-24, 30-dioic acid and 3α±, 7β-dihydroxy-30-(2-hydroxypropanoyloxy)-11-oxours-12-en-24-oic acid by various spectroscopic methods. The biotransformation processes include hydroxylation, oxidation and esterification. Primary structure-activity relationships (SAR) of inhibitory effects on NO production in RAW 264.7 macrophage cells are discussed[1]

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.125 mL	10.623 mL	21.246 mL
5 mM	0.425 mL	2.125 mL	4.249 mL
10 mM	0.212 mL	1.062 mL	2.125 mL
50 mM	0.042 mL	0.212 mL	0.425 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Biotransformation of 11-keto- β -boswellic acid by *Cunninghamella blakesleana*. *Phytochemistry*. 2013 Dec;96:330-6.

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