

Masticadienonic acid

Chemical Properties

CAS No. : 514-49-8

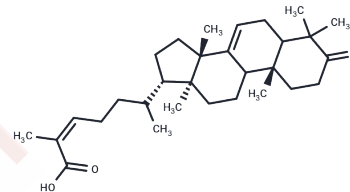
Formula: C₃₀H₄₆O₃

Molecular Weight: 454.68

Store at low temperature

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	Masticadienonic acid is a compound derived from Chios mastic gum, with potential anti-inflammatory and anti-cancer activities. It alleviates colitis in mice by modulating inflammatory responses, gut barrier integrity, and the microbiome. Masticadienonic acid is a potential protein tyrosine phosphatase 1B (PTP1B) inhibitor and can be used for research on diabetes.
Targets(IC50)	Phosphatase

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

Cui Hao, et al. Masticadienonic acid from Chios mastic gum mitigates colitis in mice via modulating inflammatory response, gut barrier integrity and microbiota. *Phytomedicine* 108 (2023): 154518.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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