

Asiatic acid

Chemical Properties

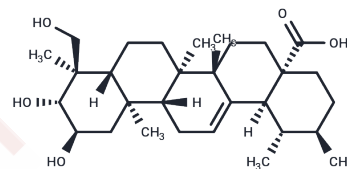
CAS No. : 464-92-6

Formula: C₃₀H₄₈O₅

Molecular Weight: 488.70

Storage: Keep away from moisture, Store at low temperature
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	Asiatic acid (Dammarolic acid) is the aglycone of asiaticoside used in wound healing with antioxidant, anti-inflammatory, and neuroprotective properties.
Targets(IC50)	Apoptosis, Parasite, p38 MAPK

Solubility Information

Solubility	H ₂ O: < 1 mg/mL (insoluble or slightly soluble), Ethanol: < 1 mg/mL (insoluble or slightly soluble), DMSO: 45.45 mg/mL (93.00 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: 3.30 mg/mL (6.75 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	2.0462 mL	10.2312 mL	20.4625 mL
5 mM	0.4092 mL	2.0462 mL	4.0925 mL
10 mM	0.2046 mL	1.0231 mL	2.0462 mL
50 mM	0.0409 mL	0.2046 mL	0.4092 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

Bunbupha S, et al. Clin Exp Pharmacol Physiol. 2015 Nov;42(11):1189-97.

Da Q, Yan Z, Li Z, et al. TAK1 is involved in sodium L-lactate-stimulated p38 signaling and promotes apoptosis. Molecular and Cellular Biochemistry. 2020: 1-10

Da Q, Yan Z, Li Z, et al. TAK1 is involved in sodium L-lactate-stimulated p38 signaling and promotes apoptosis[J]. Molecular and Cellular Biochemistry. 2020: 1-10.

Xiao Z, Zhang Y, She Y, et al. IPO7 promotes lipopolysaccharide-induced inflammatory responses in human dental pulp cells via p38 MAPK and NF- κ B signaling pathways. Molecular Immunology. 2023, 163: 116-126.

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