

## Madecassoside

## Chemical Properties

CAS No. : 34540-22-2

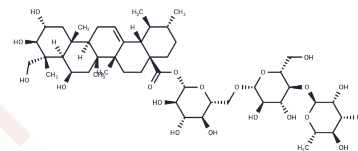
Formula: C<sub>48</sub>H<sub>78</sub>O<sub>20</sub>

Molecular Weight: 975.12

Keep away from moisture

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	Madecassoside (Asiaticoside A) is a pentacyclic triterpene extracted from <i>Centella asiatica</i> (L.) with anti-inflammatory, anti-oxidative and anti-aging activities.
Targets(IC50)	Apoptosis,Antioxidant,Caspase,Nrf2,Endogenous Metabolite,Autophagy,p38 MAPK

## Solubility Information

Solubility	H <sub>2</sub> O: 33.33 mg/mL (34.18 mM),Sonication is recommended. DMSO: 100 mg/mL (102.55 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: 4 mg/mL (4.1 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	1.0255 mL	5.1276 mL	10.2551 mL
5 mM	0.2051 mL	1.0255 mL	2.051 mL
10 mM	0.1026 mL	0.5128 mL	1.0255 mL
50 mM	0.0205 mL	0.1026 mL	0.2051 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

Lin X, et al. Pharmacol Biochem Behav. 2014 Sep;124:434-42.

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