

## Gymnemic acid I

## Chemical Properties

CAS No. : 122168-40-5

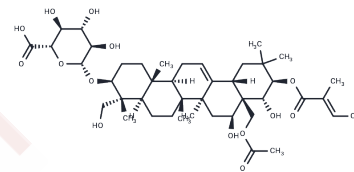
Formula: C43H66O14

Molecular Weight: 806.98

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	Gymnemic acid I (Gymnemic acid I, (+)-) inhibits protein biosynthesis with antisweet principles.
Targets(IC50)	Apoptosis,Others,Autophagy
In vitro	Gymnemic acid I causes a reduction of apoptosis under the high glucose stress[2].

## Solubility Information

Solubility	DMSO: 40 mg/mL (49.57 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: 1.5 mg/mL (1.86 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

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	1mg	5mg	10mg
1 mM	1.2392 mL	6.1959 mL	12.3919 mL
5 mM	0.2478 mL	1.2392 mL	2.4784 mL
10 mM	0.1239 mL	0.6196 mL	1.2392 mL
50 mM	0.0248 mL	0.1239 mL	0.2478 mL

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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

Capolupo A, et al. Determination of Gymnemic Acid I as a Protein Biosynthesis Inhibitor Using Chemical Proteomics. *J Nat Prod.* 2017 Apr 28;80(4):909-915.

Wu Y, et al. Gymnemic acid I triggers mechanistic target of rapamycin-mediated  $\beta$  cells cytoprotection through the promotion of autophagy under high glucose stress. *J Cell Physiol.* 2019 Jun;234(6):9370-9377.

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