Gymnemic acid I

Cat. No.: HY-N2541

CAS No.: 122168-40-5

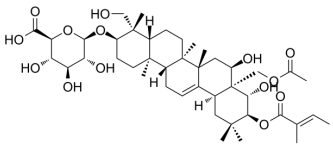
Molecular Formula: $C_{43}H_{66}O_{14}$

Molecular Weight: 806.98

Target: Apoptosis; Autophagy

Pathway: Apoptosis; Autophagy

Storage: -20°C, protect from light
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (61.96 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	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

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 1.25 mg/mL (1.55 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 1.25 mg/mL (1.55 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Gymnemic acid I is a bioactive triterpene saponin found in Gymnema sylvestre. Gymnemic acid I decreases the apoptosis under the high glucose stress[1][2].

REFERENCES

[1]. 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.

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

Caution: Product has not been fully validated for medical applications. For research use only.

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