

## Tubuloside A

### Chemical Properties

CAS No. : 112516-05-9

Formula: C37H48O21

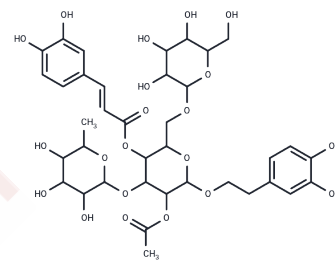
Molecular Weight: 828.76

Storage:

Keep away from direct sunlight, 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	Tubuloside A ( 8.6 microM) can inhibit D-galactosamine-induced death of hepatocytes. Tubuloside A has NO radical-scavenging activity, which possibly contributes to its anti-inflammatory effects. Tubuloside A shows stronger free radical scavenging activities than alpha-tocopherol on 1,1-diphenyl-2-picrylhydrazyl (DPPH) radical and xanthine/xanthine oxidase (XOD) generated superoxide anion radical (O <sub>2</sub> <sup>-</sup> ).
Targets(IC50)	NOS

### Solubility Information

Solubility	DMSO: 30 mg/mL (36.2 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: 2 mg/mL (2.41 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	1.2066 mL	6.0331 mL	12.0662 mL
5 mM	0.2413 mL	1.2066 mL	2.4132 mL
10 mM	0.1207 mL	0.6033 mL	1.2066 mL
50 mM	0.0241 mL	0.1207 mL	0.2413 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

Xiong Q, et al. Antioxidative effects of phenylethanoids from *Cistanche deserticola*. *Biol Pharm Bull.* 1996 Dec;19(12):1580-5.

Xiong Q, et al. Inhibition of nitric oxide by phenylethanoids in activated macrophages. *Eur J Pharmacol.* 2000 Jul 14; 400(1):137-44.

Morikawa T, et al. Acylated phenylethanoid oligoglycosides with hepatoprotective activity from the desert plant *Cistanche tubulosa*. Send to

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