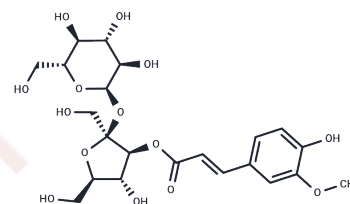


Sibiricose A5

Chemical Properties

CAS No. : 107912-97-0
 Formula: C₂₂H₃₀O₁₄
 Molecular Weight: 518.47
 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	Sibiricose A5 is a lactate dehydrogenase inhibitor, it displays antidepressant-like, and antioxidant actions. Sibiricose A5 can protect PC12 cells damage induced by <i>P. tenuifolia</i> .
Targets(IC50)	Dehydrogenase
In vitro	Sibiricose A5 could protect PC12 cells damage induced by <i>P. tenuifolia</i> [1].

Solubility Information

Solubility	DMSO: 100 mg/mL (192.88 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 (7.72 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	1.9288 mL	9.6438 mL	19.2875 mL
5 mM	0.3858 mL	1.9288 mL	3.8575 mL
10 mM	0.1929 mL	0.9644 mL	1.9288 mL
50 mM	0.0386 mL	0.1929 mL	0.3858 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

Tu H H , Liu P , Mu L , et al. [Study on antidepressant components of sucrose ester from *Polygala tenuifolia*]].
China Journal of Chinese Materia Medica, 2008, 33(11):1278.

Shi Q , Chen J , Zhou Q , et al. Indirect identification of antioxidants in *Polygalae Radix* through their reaction with 2,2-diphenyl-1-picrylhydrazyl and subsequent HPLC-ESI-Q-TOF-MS/MS]]. *Talanta*, 2015, 144:830-835.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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