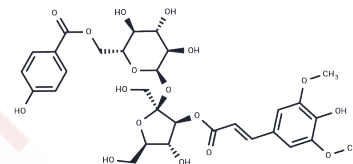


Tenuifolside B

Chemical Properties

CAS No. :	139726-36-6
Formula:	C30H36O17
Molecular Weight:	668.6
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	Tenuifolside B is a natural product from the roots of <i>Polygala tenuifolia</i> . And is a target lactate dehydrogenase inhibitor. Tenuifolside B has cognitive improving and cerebral protective effects. it can inhibit potassium cyanide (KCN)-induced hypoxia and scopolamine-induced memory impairment in mice.
Targets(IC50)	Dehydrogenase
In vivo	Tenuifolside B, which is one of the acylated oligosaccharides in the roots of <i>P. tenuifolia</i> , showed the cerebral protective effect on potassium cyanide (KCN)-induced anoxia in mice, widely used as an animal model for cerebrovascular disease, and also had an ameliorative effect on the scopolamine-induced impairment of performance in passive avoidance task in rats.

Solubility Information

Solubility	DMSO: 25 mg/mL (37.39 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4957 mL	7.4783 mL	14.9566 mL
5 mM	0.2991 mL	1.4957 mL	2.9913 mL
10 mM	0.1496 mL	0.7478 mL	1.4957 mL
50 mM	0.0299 mL	0.1496 mL	0.2991 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

Ikeya Y , Takeda S , Tunakawa M , et al. Cognitive Improving and Cerebral Protective Effects of Acylated Oligosaccharides in Polygala tenuifolia[J]. Biological & Pharmaceutical Bulletin, 2004, 27(7):1081-1085.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481