

Tenuifolin

Chemical Properties

CAS No. : 20183-47-5

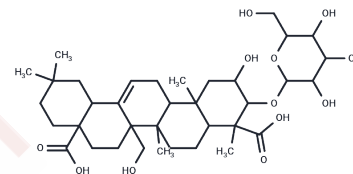
Formula: C₃₆H₅₆O₁₂

Molecular Weight: 680.82

Storage: Store at low temperature, Keep away from direct sunlight

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	Tenuifolin has no inherent toxicity to either the transfected or wild type cells at the effective concentrations, it inhibits amyloid-β secretion in vitro.
Targets(IC50)	Beta-Secretase, Cholinesterase (ChE)

Solubility Information

Solubility	DMSO: 146.9 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 (2.94 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	1.4688 mL	7.3441 mL	14.6882 mL
5 mM	0.2938 mL	1.4688 mL	2.9376 mL
10 mM	0.1469 mL	0.7344 mL	1.4688 mL
50 mM	0.0294 mL	0.1469 mL	0.2938 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

Liu YM, et al. Tenuifolin, a secondary saponin from hydrolysates of polygalasaponins, counteracts the neurotoxicity induced by A β 25-35 peptides in vitro and in vivo. *Pharmacol Biochem Behav.* 2015 Jan;128:14-22.

Lv J, et al. Tenuifolin, an extract derived from tenuigenin, inhibits amyloid-beta secretion in vitro. *Acta Physiol (Oxf).* 2009 Aug;196(4):419-25.

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