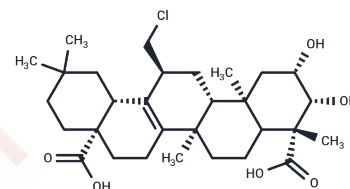


Tenuigenin

Chemical Properties

CAS No. :	2469-34-3
Formula:	C ₃₀ H ₄₅ ClO ₆
Molecular Weight:	537.13
Storage:	Keep away from direct sunlight, Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Tenuigenin (Senegenin) is a natural product from Polygala tenuifolia used in Chinese medicine with antioxidative and anti-inflammatory activity.
Targets(IC50)	NF-κB, Caspase, Antibacterial

Solubility Information

Solubility	DMSO: 50 mg/mL (93.09 mM), Sonication is recommended. Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: Soluble, (< 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 (3.72 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	1.8617 mL	9.3087 mL	18.6175 mL
5 mM	0.3723 mL	1.8617 mL	3.7235 mL
10 mM	0.1862 mL	0.9309 mL	1.8617 mL
50 mM	0.0372 mL	0.1862 mL	0.3723 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

Li X, Zhao Y, Liu P, et al. Senegenin Inhibits Hypoxia/Reoxygenation-Induced Neuronal Apoptosis by Upregulating RhoGDI α . *Mol Neurobiol.* 2015 Dec;52(3):1561-71.

Yu L, Sun L, Chen S. Protective effect of senegenin on splenectomy-induced postoperative cognitive dysfunction in elderly rats. *Exp Ther Med.* 2014 Apr;7(4):821-826.

Xie W, Yang Y, Gu X, Zheng Y, et al. Senegenin attenuates hepatic ischemia-reperfusion induced cognitive dysfunction by increasing hippocampal NR2B expression in rats. *PLoS One.* 2012;7(9):e45575.

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