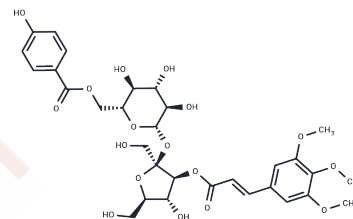


## Tenuifoliside A

## Chemical Properties

CAS No. :	139726-35-5
Formula:	C <sub>31</sub> H <sub>38</sub> O <sub>17</sub>
Molecular Weight:	682.62
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	Tenuifoliside A has anti-apoptotic, neuroprotective activity. And tenuifoliside A has anti-inflammatory effect, which is mediated by the inhibition of the NF-κB and MAPK pathways.
Targets(IC50)	ERK

## Solubility Information

Solubility	DMSO: 30 mg/mL (43.95 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4649 mL	7.3247 mL	14.6494 mL
5 mM	0.293 mL	1.4649 mL	2.9299 mL
10 mM	0.1465 mL	0.7325 mL	1.4649 mL
50 mM	0.0293 mL	0.1465 mL	0.293 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

Kim KS., et al. The inhibition of JNK MAPK and NF- $\kappa$ B signaling by tenuifolioside A isolated from *Polygala tenuifolia* in lipopolysaccharide-induced macrophages is associated with its anti-inflammatory effect. *Eur J Pharmacol.* 2013 Dec 5;721(1-3):267-76.

Farahani MS., et al. Plant-derived natural medicines for the management of depression: an overview of mechanisms of action. *Rev Neurosci.* 2015;26(3):305-21.

Liu P., et al. Potential antidepressant properties of *Radix Polygalae* (Yuan Zhi). *Phytomedicine.* 2010 Aug;17(10):794-9.

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