

Bacopasaponin C

Chemical Properties

CAS No. : 178064-13-6

Formula: C₄₆H₇₄O₁₇

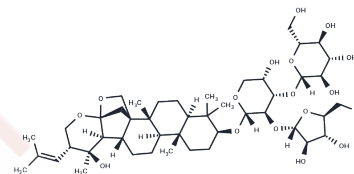
Molecular Weight: 899.07

Keep away from direct sunlight, Keep away from moisture

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	Bacopasaponin C may have antioxidant activity, it also shows anti-leishmanial property.
Targets(IC50)	Anti-infection, GABA Receptor, NMDAR, Parasite, P-gp
In vitro	Chemical characterization studies revealed the major active constituents of the herb as the triterpenoid saponins, bacosides. Bacoside A, the vital neuroprotective constituent, is composed of four constituents viz., bacoside A3, bacoside II, jujubogenin isomer of Bacopasaponin C (bacoside X) and Bacopasaponin C. B. monnieri extracts as well as bacosides successfully establish a healthy antioxidant environment in various tissues especially in liver and brain. Free radical scavenging, suppression of lipid peroxidation and activation of antioxidant enzymes by bacosides help to attain a physiological state of minimized oxidative stress. The molecular basis of neuroprotective activity of bacosides is attributed to the regulation of mRNA translation and surface expression of neuroreceptors such as AMPAR, NMDAR and GABAR in the various parts of the brain. Bioavailability as well as binding of neuroprotective agents (such as bacosides) to these receptors is controlled by the Blood Brain Barrier (BBB). However, nano conversion of these drug candidates easily resolves the BBB restriction and carries a promising role in future therapies[1]

Solubility Information

Solubility	DMSO: 60 mg/mL (66.74 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	1.1123 mL	5.5613 mL	11.1226 mL
5 mM	0.2225 mL	1.1123 mL	2.2245 mL
10 mM	0.1112 mL	0.5561 mL	1.1123 mL
50 mM	0.0222 mL	0.1112 mL	0.2225 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

Insights into the molecular aspects of neuroprotective Bacoside A and Bacopaside I. *Curr Neuropharmacol.* 2018 Apr 19.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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