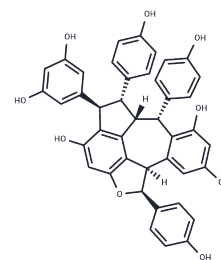


Suffruticosol A

Chemical Properties

CAS No. :	220936-82-3
Formula:	C ₄₂ H ₃₂ O ₉
Molecular Weight:	680.7
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	Suffruticosol A, a neuroprotective compound isolated from the seeds of <i>P. lactiflora</i> [1], mitigates scopolamine-induced neurodegenerative cellular damage and improves hippocampal cholinergic function. Additionally, it partially boosts BDNF signaling and has neuromodulatory effects, leading to the restoration of memory and cognitive performance in a scopolamine-induced mouse model.
In vitro	Suffruticosol A (20 μM; 24 hours) restores cell viability and survival rates in human neuroblastoma SH-SY5Y cells relative to treatment with scopolamine (2 mM) [1].
In vivo	Suffruticosol A (4 or 15 ng, biweekly; injected into the third ventricle of the brain) can ameliorate neuronal effects on cognition and memory impairments in a mouse model induced by scopolamine (1.0 mg/kg; intraperitoneal injection) [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4691 mL	7.3454 mL	14.6908 mL
5 mM	0.2938 mL	1.4691 mL	2.9382 mL
10 mM	0.1469 mL	0.7345 mL	1.4691 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.

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