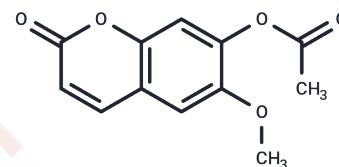


## Scopoletin acetate

## Chemical Properties

CAS No. :	56795-51-8
Formula:	C <sub>12</sub> H <sub>10</sub> O <sub>5</sub>
Molecular Weight:	234.2
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	Scopoletin acetate (7-Acetoxy-6-methoxycoumarin) is a coumarin analog derived from <i>Artemisia granatensis</i> with antioxidant, antimicrobial, cardioprotective and anticancer activities.
Targets(IC50)	Antioxidant, Antibacterial
In vivo	Scopoletin (2 mg/kg, sc) reduces age-related deficits in object memory in 15-18 month old mice; Scopoletin (2 µg, icv) increases T-maze alternation and improves novel object recognition in scopolamine-induced cholinergic-deficient mice [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.2699 mL	21.3493 mL	42.6985 mL
5 mM	0.854 mL	4.2699 mL	8.5397 mL
10 mM	0.427 mL	2.1349 mL	4.2699 mL
50 mM	0.0854 mL	0.427 mL	0.854 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

Hornick A, et al. The coumarin scopoletin potentiates acetylcholine release from synaptosomes, amplifies hippocampal long-term potentiation and ameliorates anticholinergic- and age-impaired memory. *Neuroscience*. 2011 Dec 1;197(1):280-92.

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