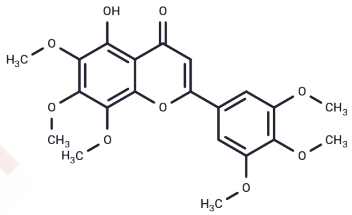
Data Sheet (Cat.No.TN4114)

TargetMol

Gardenin A

Chemical Properties



CAS No. : 21187-73-5

Formula: C21H22O9

Molecular Weight: 418.39

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	Gardenin A shows neurotrophic effects via activating MAPK/ERK, PKC, and PKA. Gardenin A exhibits antidepressant, anticonvulsant and anxiolytic effects.
Targets(IC50)	ERK,MAPK,LDL,PAK,PKA,PKC
In vitro	Oral administratGardenin A (25 mg/kg) shows sedative effects and increases the duration of sleep without altering sleep onset[2].

Solubility Information

Solubility	DMSO: 21.6 mg/mL (51.63 mM),Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3901 mL	11.9506 mL	23.9011 mL
5 mM	0.478 mL	2.3901 mL	4.7802 mL
10 mM	0.239 mL	1.1951 mL	2.3901 mL
50 mM	0.0478 mL	0.239 mL	0.478 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

Chiu SP, et al. Neurotrophic action of 5-hydroxylated polymethoxyflavones: 5-demethylnobiletin and gardenin A stimulate neuritogenesis in PC12 cells. J Agric Food Chem. 2013 Oct 2;61(39):9453-63.
Alonso-Castro AJ, et al. Evaluation of the neuropharmacological effects of Gardenin A in mice. Drug Dev Res. 2020 Aug;81(5):600-608.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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