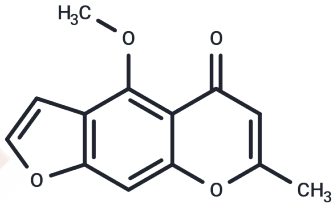
Data Sheet (Cat.No.T8198)

TargetMol

Visnagin

Chemical Properties



CAS No. :	82-57-5
Formula:	C13H10O4
Molecular Weight:	230.22
Storage:	Store at low temperature,Keep away from direct sunlight 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	Visnagin has acute hypotensive, anti-inflammatory, and neuroprotective effects, it protects against doxorubicin-induced cardiomyopathy through modulation of mitochondrial malate dehydrogenase.
Targets(IC50)	Others
In vitro	Visnagin can relax aortae previously contracted by noradrenaline, and weakly inhibit the hydrolytic activity of the cyclic nucleotide phosphodiesterase (PDE) isozymes (PDE5, PDE4, PDE3, cyclic GMP activated PDE2 and PDE1).

Solubility Information

Solubility	DMSO: 25 mg/mL (108.59 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (8.69 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.3437 mL	21.7184 mL	43.4367 mL
5 mM	0.8687 mL	4.3437 mL	8.6873 mL
10 mM	0.4344 mL	2.1718 mL	4.3437 mL
50 mM	0.0869 mL	0.4344 mL	0.8687 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

Radim Vrzal, et al. Khellin and Visnagin Differentially Modulate AHR Signaling and Downstream CYP1A Activity in Human Liver Cells. PLoS One. 2013 Sep 19;8(9):e74917.
Min-Soo Kwon, et al. Neuroprotective Effect of Visnagin on Kainic Acid-induced Neuronal Cell Death in the Mice Hippocampus. Korean J Physiol Pharmacol. 2010 Oct;14(5):257-63.
J Duarte, et al. Cardiovascular Effects of Visnagin on Rats. Planta Med. 2000 Feb;66(1):35-9.