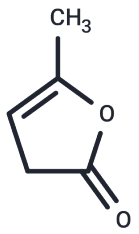
Data Sheet (Cat.No.T7995)

TargetMol

α-Angelica lactone

Chemical Properties



CAS No. : 591-12-8

Formula: C5H6O2

Molecular Weight: 98.1

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	α-Angelica lactone has cardiotonic activity, may exert their effects by providing an increased contraction-dependent calcium pool to be released upon systolic depolarization.
Targets(IC50)	GST
In vivo	α-angelicalactone, inhibited benzo(a)pyrene-induced neoplasia of the mouse forestomach and was more potent in this regard than coumarin.

Solubility Information

Solubility	DMSO: 22.5 mg/mL (229.36 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 (20.39 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	10.1937 mL	50.9684 mL	101.9368 mL
5 mM	2.0387 mL	10.1937 mL	20.3874 mL
10 mM	1.0194 mL	5.0968 mL	10.1937 mL
50 mM	0.2039 mL	1.0194 mL	2.0387 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

Wattenberg L W , Lam L K , Fladmoe A V . Inhibition of chemical carcinogen-induced neoplasia by coumarins and alpha-angelicalactone.[J]. cancer research, 1979, 39(5):1651-1654.

Nijhoff W A , Bosboom M A , Smidt M H , et al. Enhancement of rat hepatic and gastrointestinal glutathione and glutathione S-transferases by α-angelicalactone and flavone[J]. Carcinogenesis, 1995, 16(3):607-612.