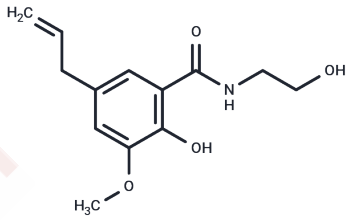
Data Sheet (Cat.No.T6375)

TargetMol

Alibendol

Chemical Properties



CAS No. : 26750-81-2

Formula: C13H17NO4

Molecular Weight: 251.28

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	Alibendol (cebera) is a choleretic, antispasmodic, and cholekinetic.
Targets(IC50)	Others
Kinase Assay	Enzyme Assays: Assays measuring the enzyme-catalyzed phosphorylation of GST-IκBα are performed by adding enzyme (a final concentration of 0.5 μg/mL) at 30 ℃ to solutions of 100 μg/mL GST- IκBα and 5 μM [33P]ATP in 40 mM Tris HCl, pH 7.5, containing 4 mM MgCl2, 34 mM sodium phosphate, 3 mM NaCl, 0.6 mM potassium phosphate, 1 mM KCl, 1 mM dithiothreitol, 3% (w/v) glycerol, and 250 μg/mL bovine serum albumin. The specific activity of [33P]ATP used in the assay is 100 Ci/mmol. After 5 min, the kinase reactions are stopped by the addition of 2× Laemmli sample buffer and heat-treated at 90 ℃ for 1 min. The samples are then loaded on to NuPAGE 10% BisTris gels. After completion of SDS-PAGE, gels are dried on a slab gel dryer. The bands are then detected using a 445Si PhosphorImager, and the radioactivity is quantified using ImageQuant software. Under these conditions, the degree of phosphorylation of GST-IκBα is linear with time and concentration of enzyme.

Solubility Information

Solubility	DMSO: 47 mg/mL (187.04 mM),Sonication is recommended. H2O: < 1 mg/mL (insoluble or slightly soluble), Ethanol: 47 mg/mL (187.04 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 (7.96 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	3.9796 mL	19.8981 mL	39.7962 mL
5 mM	0.7959 mL	3.9796 mL	7.9592 mL
10 mM	0.398 mL	1.9898 mL	3.9796 mL
50 mM	0.0796 mL	0.398 mL	0.7959 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

Sheng, L., H. Chen, and Y. Li,et al. J Chromatogr B Analyt Technol Biomed Life Sci, 2007. 854(1-2): p. 99-103.