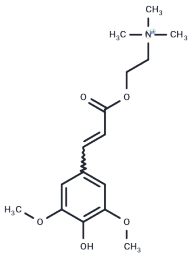
Data Sheet (Cat.No.T2S1200)

TargetMol

Sinapine

Chemical Properties



CAS No. : 18696-26-9

Formula: C16H24NO5

Molecular Weight: 310.37

Storage: Store at low temperature,Keep away from direct sunlight,Keep away from moisture
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	1. Sinapine, an alkaloid from seeds of the cruciferous species, can be used as an effective natural compound for chemo-resistance. 2. Sinapine has antioxidant and radio-protective activities.
Targets(IC50)	Antioxidant,Cholinesterase (ChE),P-gp

Solubility Information

Solubility	Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: Soluble, H2O: < 0.25 mg/mL (0.8 mM, Insoluble or slightly soluble) DMSO: 20 mg/mL (64.44 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 (6.44 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	3.222 mL	16.1098 mL	32.2196 mL
5 mM	0.6444 mL	3.222 mL	6.4439 mL
10 mM	0.3222 mL	1.611 mL	3.222 mL
50 mM	0.0644 mL	0.3222 mL	0.6444 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

Guo Y , An H , Feng L , et al. Sinapine as an active compound for inhibiting the proliferation of Caco-2 cells via downregulation of P-glycoprotein[J]. Food & Chemical Toxicology, 2014, 67(5):187-192.
Kim K Y, Kang Y M, Lee A, et al.Hydroethanolic Extract of Lepidium apetalum Willdenow Alleviates Dextran Sulfate Sodium-Induced Colitis by Enhancing Intestinal Barrier Integrity and Inhibiting Oxidative Stress and Inflammasome Activation.Antioxidants.2024, 13(7): 795.