

Phenylethyl isothiocyanate

Chemical Properties

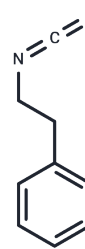
CAS No. : 2257-09-2

Formula: C₉H₉NS

Molecular Weight: 163.24

Storage: Store at low temperature, Store under nitrogen
 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	Phenylethyl isothiocyanate (JC5411) is an HDAC inhibitor. It potentially for the treatment of benign prostatic hypertrophy.
Targets(IC50)	HDAC, Antifungal

Solubility Information

Solubility	DMSO: 55 mg/mL (336.93 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 (12.25 mM), Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.1259 mL	30.6297 mL	61.2595 mL
5 mM	1.2252 mL	6.1259 mL	12.2519 mL
10 mM	0.6126 mL	3.063 mL	6.1259 mL
50 mM	0.1225 mL	0.6126 mL	1.2252 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

Zhu Y , Liu S , Yan S , et al. Phenylethyl isothiocyanate induces oxidative damage of porcine kidney cells mediated by reactive oxygen species[J]. Journal of Biochemical and Molecular Toxicology, 2020, 34(2).

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