

Benzyl isothiocyanate

Chemical Properties

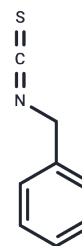
CAS No. : 622-78-6

Formula: C₈H₇NS

Molecular Weight: 149.21

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	Benzyl isothiocyanate (Benzoylthiocarbimide) (BITC) is an isothiocyanate originally found in cruciferous vegetables. It shows immunomodulatory, anti-parasitic, antibiotic, antioxidative, anti-atherosclerotic, anti-angiogenic, anti-metastatic, anticancer chemotherapeutic, and chemopreventive activities.
Targets(IC50)	Apoptosis, Antibacterial, Antibiotic, Parasite, Autophagy, ROS

Solubility Information

Solubility	DMSO: 250 mg/mL (1675.49 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 5 mg/mL (33.51 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	6.702 mL	33.5098 mL	67.0196 mL
5 mM	1.3404 mL	6.702 mL	13.4039 mL
10 mM	0.6702 mL	3.351 mL	6.702 mL
50 mM	0.134 mL	0.6702 mL	1.3404 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

Sehrawat A, Singh SV. Mol Carcinog. 2015 Apr 7.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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