

Luciferase-IN-1

Chemical Properties

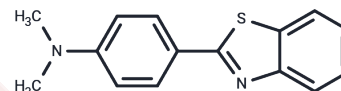
CAS No. : 10205-56-8

Formula: C₁₅H₁₄N₂S

Molecular Weight: 254.35

Storage: Keep away from direct sunlight, Store under nitrogen
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	Luciferase-IN-1, a luciferase inhibitor, is utilized in the study of bacterial and fungal infections.
Targets(IC50)	Reactive Oxygen Species, Antibacterial, Antifungal, ROS

Solubility Information

Solubility	DMSO: 9 mg/mL (35.38 mM), Sonication and heating to 60°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (3.93 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	3.9316 mL	19.658 mL	39.3159 mL
5 mM	0.7863 mL	3.9316 mL	7.8632 mL
10 mM	0.3932 mL	1.9658 mL	3.9316 mL
50 mM	0.0786 mL	0.3932 mL	0.7863 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

Auld DS, et al. A basis for reduced chemical library inhibition of firefly luciferase obtained from directed evolution. J Med Chem. 2009;52(5):1450-1458.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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