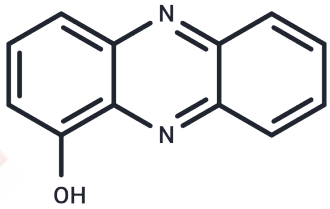
Data Sheet (Cat.No.T20711)

TargetMol

Hemipyocyanine

Chemical Properties



CAS No. : 528-71-2

Formula: C12H8N2O

Molecular Weight: 196.2

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	Hemipyocyanine (528-71-2) is the virulence factor of Gram-negative, aerobic rod bacterium Pseudomonas aeruginosa. Hemipyocyanine is an α-Amylase inhibitor.
Targets(IC50)	Antibacterial,Amylase
In vitro	The docking study indicated that HPC inhibits α-amylase by binding to amino acid Arg421 at the biding site on enzyme α-amylase with good binding energy (-9.3 kcal/mol) and creating two linkages of H-acceptors[1].

Solubility Information

Solubility	DMSO: 60 mg/mL (305.81 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.0968 mL	25.4842 mL	50.9684 mL
5 mM	1.0194 mL	5.0968 mL	10.1937 mL
10 mM	0.5097 mL	2.5484 mL	5.0968 mL
50 mM	0.1019 mL	0.5097 mL	1.0194 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

Nguyen TH, et al. Novel α-Amylase Inhibitor Hemi-Pyocyanin Produced by Microbial Conversion of Chitinous Discards. Mar Drugs. 2022 Apr 23;20(5):283.

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