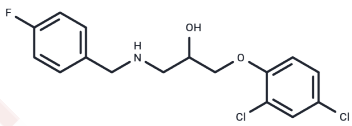
Data Sheet (Cat.No.T78835)

TargetMol

Phosphatase-IN-1

Chemical Properties



CAS No. : 2889356-55-0

Formula: C16H16Cl2FNO2

Molecular Weight: 344.21

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	Phosphatase-IN-1 (compound II-8), a propranolol derivative, acts as an inhibitor of phosphatidate phosphatase (Pah). It binds to MoPah1 with an affinity constant of 19.8 μM, demonstrating growth inhibition of plant pathogens and anti-fungal properties, while exhibiting no toxicity towards rice seedlings and wheat heads [1].
Targets(IC50)	Antifungal,Phosphatase
In vitro	Phosphatase-IN-1 (II-8) exhibits broad-spectrum inhibitory activity against 8 plant pathogens at a concentration of 60 μM and directly binds to MoPah1[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9052 mL	14.526 mL	29.052 mL
5 mM	0.581 mL	2.9052 mL	5.8104 mL
10 mM	0.2905 mL	1.4526 mL	2.9052 mL
50 mM	0.0581 mL	0.2905 mL	0.581 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

Zhao J, et al. Identification of propranolol and derivatives that are chemical inhibitors of phosphatidate phosphatase as potential broad-spectrum fungicides. Plant Commun. 2023 Aug 30:100679.

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