

5CF2PB

Chemical Properties

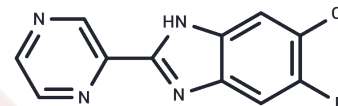
CAS No. : 1257535-23-1

Formula: C₁₁H₆ClFN₄

Molecular Weight: 248.64

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	5CF2PB is a novel synthetic antibacterial molecule targeting multidrug-resistant bacteria. It exerts significant bactericidal effects against strains including methicillin-resistant <i>S. aureus</i> by specifically interfering with the cross-linking of key cell wall components, disrupting pathogen membrane stability and inhibiting target enzymes.
Targets(IC50)	Antibacterial
In vitro	5CF2PB exhibits potent antibacterial and antifungal activities by targeting the 504L site [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.0219 mL	20.1094 mL	40.2188 mL
5 mM	0.8044 mL	4.0219 mL	8.0438 mL
10 mM	0.4022 mL	2.0109 mL	4.0219 mL
50 mM	0.0804 mL	0.4022 mL	0.8044 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

Masato Asanuma, et al. 3-O-Methyldopa inhibits astrocyte-mediated dopaminergic neuroprotective effects of L-DOPA. *BMC Neurosci.* 2016 Jul 25;17(1):52.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481