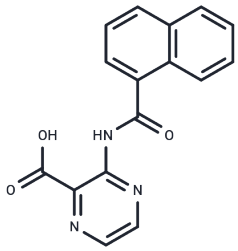
Data Sheet (Cat.No.T60613)

TargetMol

Mab Aspartate Decarboxylase-IN-1

Chemical Properties



CAS No. : 2755712-12-8

Formula: C16H11N3O3

Molecular Weight: 293.28

Storage: Keep away from moisture,Keep away from direct sunlight
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	Mab Aspartate Decarboxylase-IN-1 is a potent inhibitor of M. tuberculosis aspartate decarboxylase (PanD). It blocks bacterial growth by disrupting the pantothenate biosynthesis pathway.
Targets(IC50)	Antibacterial,Decarboxylase
In vitro	Mab Aspartate Decarboxylase-IN-1 inhibits PanD activity (IC50 = 0.7-2 mM) in M. abscessus via electrostatic and hydrogen bonding at the active site [1].

Solubility Information

Solubility	DMSO: 13 mg/mL (44.33 mM),Sonication is recommmended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4097 mL	17.0486 mL	34.0971 mL
5 mM	0.6819 mL	3.4097 mL	6.8194 mL
10 mM	0.341 mL	1.7049 mL	3.4097 mL
50 mM	0.0682 mL	0.341 mL	0.6819 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

Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.

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