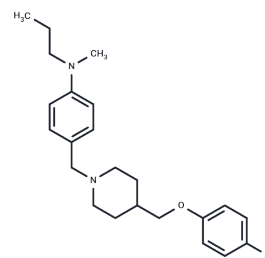


MenA-IN-2

Chemical Properties

CAS No. :	3026690-49-0
Formula:	C ₂₃ H ₃₁ ClN ₂ O
Molecular Weight:	386.96
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	MenA-IN-2 is a potent 1, 4-dihydroxy-2-naphthoate isopentadiene transferase (MenA) inhibitor with an IC ₅₀ value of 22 μM for MenA and 10 μM for Mycobacterium tuberculosis (Mtb). The continuous transmission of MenA-IN-2 Mtb has inhibitory effect.
Targets(IC ₅₀)	Others,Antibacterial

Solubility Information

Solubility	DMSO: 225 mg/mL (581.46 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+90% Corn Oil: 3.3 mg/mL (8.53 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	2.5842 mL	12.9212 mL	25.8425 mL
5 mM	0.5168 mL	2.5842 mL	5.1685 mL
10 mM	0.2584 mL	1.2921 mL	2.5842 mL
50 mM	0.0517 mL	0.2584 mL	0.5168 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

Berg K, et al. SAR study of piperidine derivatives as inhibitors of 1,4-dihydroxy-2-naphthoate isoprenyltransferase (MenA) from Mycobacterium tuberculosis. Eur J Med Chem. 2023;249:115125.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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