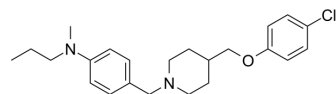


MenA-IN-2

Cat. No.:	HY-152534		
CAS No.:	3026690-49-0		
Molecular Formula:	C ₂₃ H ₃₁ ClN ₂ O		
Molecular Weight:	386.96		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (646.06 mM; ultrasonic and warming and heat to 60°C)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	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	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.38 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	MenA-IN-2 (Compound 11) is an inhibitor of 1,4-dihydroxy-2-naphthoate prenyltransferase (MenA). MenA-IN-2 inhibits MenA with an IC ₅₀ value of 22 μM and inhibits Mycobacterium tuberculosis (<i>Mtb</i>) with an GIC ₅₀ value of 10 μM. MenA-IN-2 can curb the continuous transmission of Mtb ^[1] .
IC₅₀ & Target	IC ₅₀ : 22 μM (1,4-dihydroxy-2-naphthoate prenyltransferase, MenA) ^[1]

REFERENCES

[1]. 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 Jan 18;249:115125.

Caution: Product has not been fully validated for medical applications. For research use only.

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