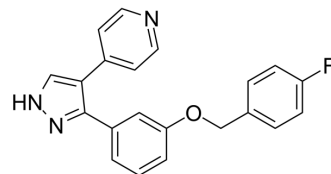


LoICDE-IN-1

Cat. No.:	HY-130839		
CAS No.:	1639933-78-0		
Molecular Formula:	C ₂₁ H ₁₆ FN ₃ O		
Molecular Weight:	345.37		
Target:	Bacterial		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 41.67 mg/mL (120.65 mM; Need ultrasonic)
 H₂O : < 0.1 mg/mL (insoluble)

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.8954 mL	14.4772 mL	28.9545 mL
	5 mM	0.5791 mL	2.8954 mL	5.7909 mL
	10 mM	0.2895 mL	1.4477 mL	2.8954 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 2.08 mg/mL (6.02 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.08 mg/mL (6.02 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

LoICDE-IN-1 is an inhibitor of the Lol proteins (LoICDE) complex, with antibacterial activity^[1].

IC₅₀ & Target

Bacterial

In Vitro

LoICDE-IN-1 (compound 2) inhibits the function of the LoICDE complex, which is required for transport of lipoproteins to the outer membrane^[1].

LoICDE-IN-1 inhibits E. coli ATCC 25922 and E. coli ATCC 25922 ΔtolC with MIC with 8 μg/ml and 0.125 μg/ml^[1].

LoICDE-IN-1 inhibits bacterial growth by targeting LoICDE to block lipoprotein transport to the outer membrane^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Nayar AS, et al. Novel antibacterial targets and compounds revealed by a high-throughput cell wall reporter assay. J Bacteriol. 2015 May;197(10):1726-34.

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

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