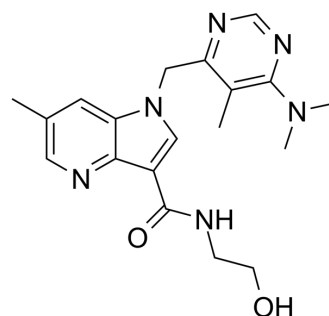


DprE1-IN-2

Cat. No.:	HY-100531		
CAS No.:	1615713-87-5		
Molecular Formula:	C ₁₉ H ₂₄ N ₆ O ₂		
Molecular Weight:	368.43		
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 : ≥ 33 mg/mL (89.57 mM)
 * "≥" means soluble, but saturation unknown.

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.7142 mL	13.5711 mL	27.1422 mL
	5 mM	0.5428 mL	2.7142 mL	5.4284 mL
	10 mM	0.2714 mL	1.3571 mL	2.7142 mL

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

BIOLOGICAL ACTIVITY

Description

DprE1-IN-2 (compound 18) is a potent DprE1 inhibitor with an IC₅₀ of 28 nM. DprE1-IN-2 has antituberculosis effect^[1].

IC₅₀ & Target

DprE1^[1]

In Vivo

DprE1-IN-2 (compound 18; oral; 100 mg/kg) has t_{1/2} of 0.9 hours and C_{max} of 70 μM in BALB/c Mice^[1].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	BALB/c Mice ^[1]
Dosage:	100 mg/kg
Administration:	Oral
Result:	Had t _{1/2} of 0.9 hours and C _{max} of 70 μM.

REFERENCES

[1]. Shirude PS et al. Lead optimization of 1,4-azaindoles as antimycobacterial agents. J Med Chem. 2014 Jul 10;57(13):5728-37.

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

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