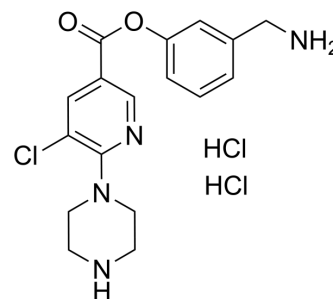


BDM91270

Cat. No.:	HY-155048
CAS No.:	2892824-11-0
Molecular Formula:	C ₁₇ H ₂₁ Cl ₃ N ₄ O ₂
Molecular Weight:	419.73
Target:	Bacterial
Pathway:	Anti-infection
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 50 mg/mL (119.12 mM; Need ultrasonic)					
	DMSO : 25 mg/mL (59.56 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		2.3825 mL	11.9124 mL	23.8248 mL
5 mM			0.4765 mL	2.3825 mL	4.7650 mL	
10 mM		0.2382 mL	1.1912 mL	2.3825 mL		
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (5.96 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% PBS Solubility: ≥ 2.5 mg/mL (5.96 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	BDM91270 (compound 29) is an E. coli AcrAB-TolC efflux pump inhibitor with an EC ₉₀ of 0.6 μM for wild-type E. coli AcrB. BDM91270 can be used in the study of Escherichia coli drug resistance ^[1] .
IC₅₀ & Target	EC90: 0.6 μM (AcrB) ^[1] .

REFERENCES

[1]. Compagne N, et al. Optimization of pyridylpiperazine-based inhibitors of the Escherichia coli AcrAB-TolC efflux pump. Eur J Med Chem. 2023 Jul 7;259:115630.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA