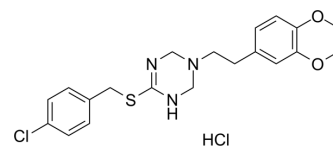


MAC13243

Cat. No.:	HY-14456A
CAS No.:	1071638-38-4
Molecular Formula:	C ₂₀ H ₂₅ Cl ₂ N ₃ O ₂ S
Molecular Weight:	442.4
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	DMSO : 50 mg/mL (113.02 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		2.2604 mL	11.3020 mL	22.6040 mL
		5 mM		0.4521 mL	2.2604 mL	4.5208 mL
10 mM		0.2260 mL	1.1302 mL	2.2604 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 (5.65 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.65 mM); Clear solution 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.65 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	MAC13243, an antibacterial agent, is an inhibitor of bacterial lipoprotein targeting chaperone, LolA. MAC13243 is an antibacterial agent with Gram-negative selectivity ^{[1][2]} .
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CUSTOMER VALIDATION

- Sci Rep. 2017 Dec 15;7(1):17629.

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REFERENCES

[1]. Barker CA, et al. Degradation of MAC13243 and studies of the interaction of resulting thiourea compounds with the lipoprotein targeting chaperone LolA. Bioorg Med Chem Lett. 2013 Apr 15;23(8):2426-31.

[2]. Pathania R, et al. Chemical genomics in Escherichia coli identifies an inhibitor of bacterial lipoprotein targeting. Nat Chem Biol. 2009 Nov;5(11):849-56.

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

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