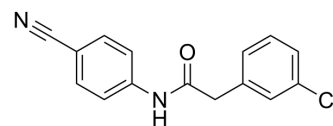


Antibacterial agent 125

Cat. No.:	HY-151918
CAS No.:	1274611-43-6
Molecular Formula:	C ₁₅ H ₁₁ ClN ₂ O
Molecular Weight:	270.71
Target:	Bacterial
Pathway:	Anti-infection
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (923.50 mM); ultrasonic and warming and heat to 60°C				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	3.6940 mL	18.4699 mL	36.9399 mL
		5 mM	0.7388 mL	3.6940 mL	7.3880 mL
	10 mM	0.3694 mL	1.8470 mL	3.6940 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: ≥ 2.08 mg/mL (7.68 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (7.68 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Antibacterial agent 125 is an antibacterial agent. Antibacterial agent 125 has a potent antimicrobial activity against clinically relevant Gram-positive pathogens with MIC ₅₀ values range from 0.25 - 8 μM. Antibacterial agent 125 can be used for the research of antimicrobial resistance ^[1] .
IC ₅₀ & Target	MIC ₅₀ : 0.25 - 8 μM (Gram-positive pathogens) ^[1]
In Vitro	Antibacterial agent 125 has activity against clinically relevant Gram-positive pathogens with MIC ₅₀ values from 0.25-8 μM ^[1] . Antibacterial agent 125 has inhibitory activity against methicillin-resistant Staphylococcus aureus strain without showing cytotoxicity in human cells ^[1] . Antibacterial agent 125 has high metabolic stability and excellent safety profile ^[1] . Antibacterial agent 125 not induces resistance after ten passages and has a moderate ability to inhibit the biofilm formation

[1].

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

REFERENCES

[1]. Francesca Brunelli, et al. Isocyanides in med chem: A scaffold hopping approach for the identification of novel 4-isocyanophenylamides as potent antibacterial agents against methicillin-resistant *Staphylococcus aureus*. *Eur J Med Chem*. 2022 Nov 26;246:114950.

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

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