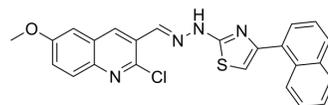


Antibacterial agent 131

Cat. No.:	HY-152249		
Molecular Formula:	C ₂₄ H ₁₇ ClN ₄ OS		
Molecular Weight:	444.94		
Target:	Bacterial; Fungal; Antibiotic		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 62.5 mg/mL (140.47 mM; ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass	1 mg	5 mg	10 mg
			1 mM	2.2475 mL	11.2375 mL
5 mM	0.4495 mL	2.2475 mL	4.4950 mL		
10 mM	0.2247 mL	1.1237 mL	2.2475 mL		

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

BIOLOGICAL ACTIVITY

Description

Antibacterial agent 131 is a quinoline derivative. Antibacterial agent 131 has antimicrobial effect. Antibacterial agent 131 destroys the integrity of the fungal cells via blocking ergosterol production^[1].

In Vitro

Antibacterial agent 131 (compound 4m) has antimicrobial activity with MIC₉₀ values of 9.81 µg/mL for Escherichia coli ATCC 35218, E. coli ATCC 25922, Staphylococcus aureus ATCC 6538, and methicillin-resistant S. aureus (MRSA), respectively^[1]. Antibacterial agent 131 has anti-candida effect with MIC₉₀ values of ≤0.06, 0.24, 1.95, and 1.95 µg/mL for Candida krusei ATCC 6258, Candida parapsilosis ATCC 22019, Candida albicans ATCC 24433, and C. glabrata ATCC 90030, respectively^[1]. Antibacterial agent 131 (24 h) has low cytotoxicity with an IC₅₀ value of 34.51 µM in NIH/3T3 cells^[1]. Antibacterial agent 131 (0.06-3.91 µg/mL) inhibits DNA-Gyrase Enzyme against E. coli^[1]. Antibacterial agent 131 has antifungal activity via blocking ergosterol production^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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

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