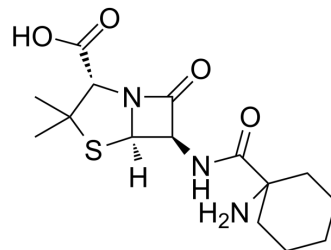


Cyclacillin

Cat. No.:	HY-16158	
CAS No.:	3485-14-1	
Molecular Formula:	C ₁₅ H ₂₃ N ₃ O ₄ S	
Molecular Weight:	341.43	
Target:	Bacterial; Antibiotic	
Pathway:	Anti-infection	
Storage:	Powder	-20°C 3 years
	In solvent	-80°C 6 months
		-20°C 1 month



BIOLOGICAL ACTIVITY

Description	Cyclacillin (Wy-4508) is an orally active aminopenicillin antibiotic, shows antibacterial activity against a wide range of gram-positive and gram-negative pathogens ^[1] .
IC₅₀ & Target	β-lactam
In Vitro	Cyclacillin (0-125 μg/mL) inhibits varies pathogens except Klebsiella an Enterobacter organisms with MIC values range from 0.24 μg/mL to 7.8 μg/mL ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Cyclacillin (0-287 mg/kg; p.o.; single dose) shows oral activity in mice and rescues mice injected with gram-positive and gram-negative pathogens ^[1] . Cyclacillin (10 mg/kg; i.v.; single dose) is absorbed by the rat intestinal tissue at relatively low concentrations (less than 1 mg/mL) followed solely Michaelis-Menten kinetics ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Warren GH. Cyclacillin: microbiological and pharmacological properties and use in chemotherapy of infection - a critical appraisal. *Chemotherapy*. 1976;22(3-4):154-82.

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

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