Moxalactam

®

MedChemExpress

Cat. No.:	HY-B1484A	
CAS No.:	64952-97-2	O OH N-N
Molecular Formula:	$C_{20}H_{20}N_{6}O_{9}S$	O S N
Molecular Weight:	520.47	
Target:	Bacterial; Antibiotic; Beta-lactamase	
Pathway:	Anti-infection	но
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	0

BIOLOGICAL ACTIVITY			
Description	Moxalactam (Latamoxef) is a synthetic oxa-β-lactam antibiotic. Moxalactam has a broad spectrum of activity against Gram- positive and Gram-negative aerobic and anaerobic bacteria. Moxalactam inhibits production of β-lactamases ^[1] .		
IC ₅₀ & Target	β-lactam		
In Vitro	Moxalactam (Latamoxef) inhibits 90% of strains of Escherichia coli, Klebsiella species, Proteus species, Morganella morganii, Neisseria gonorrhoeae, Neisseria meningitidis, Haemophilus influenzae and Salmonella species, including strains which are resistant to <u>Cephalothin</u> (HY-B1275A) and <u>Gentamicin</u> (HY-A0276A) at concentrations of less than 1 µg/mL ^[1] . Moxalactam exhibits moderate activity against P. aeruginosa and is usually active against other species of Pseudomonas, Acinetobacter species are usually resistant to Moxalactam ^[1] . Moxalactam has marked stability in vitro against a variety of β-lactamases, including that produced by B. fragilis, inhibits production of β-lactamases and does not induce class I β-lactamase ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
In Vivo		f) (0-7.4 mg/mouse; s.c.; once) is effective against bacterial infections in mice ^[2] . ntly confirmed the accuracy of these methods. They are for reference only. Four-week-old male strain ICR mice, weighing 18-20 g, bacterial infection model ^[2] 0-7.4 mg/mouse Subcutaneous injection, once Showed protective activity with ED ₅₀ s less than 7.4 mg/mouse against gram-positive and gram-negative bacterial infected mice.	

CUSTOMER VALIDATION

• Biomed Res Int. 2018 Jul 2;2018:3579832.

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REFERENCES

[1]. Goto S. In vitro and in vivo antibacterial activity of moxalactam, an oxa-β-lactam antibiotic. Clinical Infectious Diseases, 1982, 4(Supplement_3): S501-S510.

[2]. Carmine AA, et al. Moxalactam (latamoxef). A review of its antibacterial activity, pharmacokinetic properties and therapeutic use. Drugs. 1983 Oct;26(4):279-333.

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

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