Mezlocillin

Cat. No.: HY-B1466A CAS No.: 51481-65-3 Molecular Formula: $C_{21}H_{25}N_5O_8S_2$

Molecular Weight: 539.58

Antibiotic; Bacterial Target: Pathway: Anti-infection

Storage: Please store the product under the recommended conditions in the Certificate of

Product Data Sheet

BIOLOGICAL ACTIVITY

Description	Mezlocillin (BAY-f 1353) is a β -lactam antibiotic, a semisynthetic and extended-spectrum antibiotic. Mezlocillin is active against both gram-negative and gram-positive bacteria. Mezlocillin can be used in bacterial infection research ^{[1][2]} .	
IC ₅₀ & Target	β-lactam	
In Vivo	Mezlocillin (subcutaneous injection; 1.7-5.7 mg/kg; twice daily; 7 d) treatment in vivo suppresses the IgM and IgG responses and the delayed-type hypersensitivity reaction, observes the loss of hair, and inhibits lymphocyte proliferation of animals treated with all doses ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Male Balb/c mice $^{[1]}$
	Dosage:	1.7, 4.3, and 5.7 mg/kg
	Administration:	Subcutaneous injection; 1.7, 4.3, and 5.7 mg/kg; twice daily; 7 days
	Result:	Suppressed the IgM and IgG responses and the delayed-type hypersensitivity reaction treated with all doses.
		Observed a loss of hair in the majority of animals treated with all doses.

REFERENCES

[1]. Roszkowski W, et al. Antibiotics and immunomodulation: effects of cefotaxime, amikacin, mezlocillin, piperacillin and clindamycin. Med Microbiol Immunol. 1985;173(5):279-89.

[2]. Bodey GP, et al. Mezlocillin: in vitro studies of a new broad-spectrum penicillin. Antimicrob Agents Chemother. 1977 Jan;11(1):74-9.

[3]. Kristof RA, et al. Treatment of accidental high dose intraventricular mezlocillin application by cerebrospinal fluid exchange. J Neurol Neurosurg Psychiatry. 1998 Mar;64(3):379-81.

 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

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