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Produktinformation



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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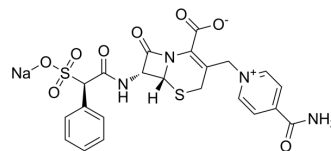
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Cefsulodin sodium (Standard)

Cat. No.:	HY-13588R
CAS No.:	52152-93-9
Molecular Formula:	C ₂₂ H ₁₉ N ₄ NaO ₈ S ₂
Molecular Weight:	554.53
Target:	Bacterial; Antibiotic
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Cefsulodin (sodium) (Standard) is the analytical standard of Cefsulodin (sodium). This product is intended for research and analytical applications. Cefsulodin (SCE-129) sodium is a third generation β lactam antibiotic and member of the cepheps subgroup of antibiotics. Cefsulodin sodium inhibits cell wall synthesis by competitively inhibiting penicillin binding protein (PBP) cross-linking and transpeptidation of peptidoglyc. Cefsulodin sodium is a potent tyrosine phosphatase inhibitor against mPTPB, a virulent phosphatase from Mycobacterium tuberculosis, with an IC ₅₀ value of 16 μ M ^{[1][2][3][4]} .
IC ₅₀ & Target	16 μ M (mPTPB, phosphatase from Mycobacterium tuberculosis) ^[1]

REFERENCES

- [1]. King A, et al. In vitro antibacterial activity and susceptibility of cefsulodin, an antipseudomonal cephalosporin, to beta-lactamases. Antimicrob Agents Chemother. 1980 Feb;17(2):165-9.
- [2]. Gotoh N, et al. Resistance of Pseudomonas aeruginosa to cefsulodin: modification of penicillin-binding protein 3 and mapping of its chromosomal gene. J Antimicrob Chemother. 1990 Apr;25(4):513-23.
- [3]. He R, et al. Cefsulodin Inspired Potent and Selective Inhibitors of mPTPB, a Virulent Phosphatase from Mycobacterium tuberculosis. ACS Med Chem Lett. 2015 Nov 3;6(12):1231-5.
- [4]. Sack K, et al. Renal tolerance of imipenem/cilastatin and other beta-lactam antibiotics in rats. Infection. 1985;13 Suppl 1:S156-60.

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

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