

Data Sheet (Cat.No.T7858)

Ceftazole sodium

Chemical Properties

CAS No.:	41136-22-5
Formula:	C ₁₃ H ₁₁ N ₈ NaO ₄ S ₃
Molecular Weight:	462.45
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Ceftazole sodium is a broad-spectrum cephalosporin antibiotic active gram-negative and gram-positive bacteria except for <i>Proteus vulgaris</i> , <i>Pseudomonas aeruginosa</i> , and <i>Serratia marcescens</i> . It has the inhibition of cell wall synthesis via affinity for penicillin-binding proteins. It also inhibits alpha-glucosidase.
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Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.162 mL	10.812 mL	21.624 mL
5 mM	0.432 mL	2.162 mL	4.325 mL
10 mM	0.216 mL	1.081 mL	2.162 mL
50 mM	0.043 mL	0.216 mL	0.432 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

- Lee DS, Lee JM, Kim SU, Chang KT, Lee SH. Ceftazole, a cephem antibiotic, is an alpha-glucosidase inhibitor with in vivo anti-diabetic activity. *Int J Mol Med.* 2007 Sep;20(3):379-83. PubMed PMID: 17671744.
- Nishida M, Murakawa T, Kamimura T, Okada N, Sakamoto H, Fukada S, Nakamoto S, Yokota Y, Miki K. In vitro and in vivo evaluation of ceftazole, a new cephalosporin derivative. *Antimicrob Agents Chemother.* 1976 Jul;10(1):1-13. PubMed PMID: 825020; PubMed Central PMCID: PMC429680.

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