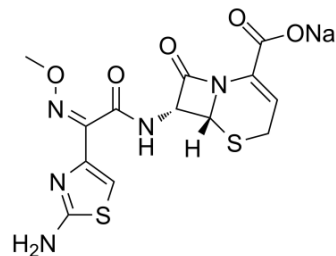


Ceftizoxime sodium

Cat. No.:	HY-B1596A	
CAS No.:	68401-82-1	
Molecular Formula:	C ₁₃ H ₁₂ N ₅ NaO ₅ S ₂	
Molecular Weight:	405.38	
Target:	Bacterial; Antibiotic	
Pathway:	Anti-infection	
Storage:	Powder	-20°C 3 years 4°C 2 years

* The compound is unstable in solutions, freshly prepared is recommended.



SOLVENT & SOLUBILITY

In Vitro

DMSO : 15 mg/mL (37.00 mM; Need ultrasonic and warming)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.4668 mL	12.3341 mL	24.6682 mL
	5 mM	0.4934 mL	2.4668 mL	4.9336 mL
	10 mM	0.2467 mL	1.2334 mL	2.4668 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Ceftizoxime sodium (SKF-88373) is third generation cephalosporin effective against Gram-negative and Gram-positive bacteria. It binds penicillin-binding proteins (PBPs) and inhibits the bacterial cell wall synthesis.

IC₅₀ & Target

Antibacterial

In Vitro

Ceftizoxime is a third-generation cephalosporin available for parenteral administration. Unlike other third-generation cephalosporins, the whole C-3 side chain in ceftizoxime has been removed to prevent deactivation by hydrolytic enzymes. It rather resembles cefotaxime in its properties, but is not subject to metabolism.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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

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