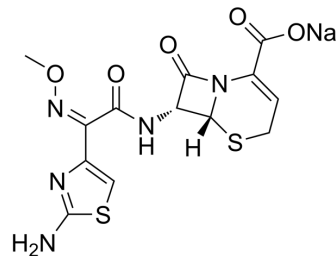


Ceftizoxime sodium

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; Penicillin-binding protein (PBP)
Pathway:	Anti-infection
Storage:	4°C, sealed storage, away from moisture * The compound is unstable in solutions, freshly prepared is recommended.



SOLVENT & SOLUBILITY

In Vitro

H₂O : 100 mg/mL (246.68 mM; Need ultrasonic)
DMSO : 15 mg/mL (37.00 mM; Need ultrasonic and warming)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	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	β-lactam
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.

CUSTOMER VALIDATION

- Nat Commun. 2023 Mar 22;14(1):1594.

See more customer validations on www.MedChemExpress.com

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

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