

Product Datasheet

Cefuroxime sodium (orb1224655)

Catalog Number	orb1224655
Category	Small Molecules
Description	<p>Cefuroxime sodium is an enteral or oral second-generation cephalosporin antibiotic.(In Vitro):Cefuroxime sodium is highly active against <i>S. aureus</i> (MIC=0.25 µg/ml), regardless of whether the strains produces a penicillinase. It is against <i>Staphylococcus aureus</i> methicillin susceptible; <i>S. aureus</i>, methicillin resistant, <i>Streptococcus pyogenes</i>, <i>S. pneumoniae</i>, <i>S. viridans</i>, <i>S. faecalis</i>, and <i>Clostridium</i> spp with MIC values of 0.25 µg/ml, 5.9 µg/ml, 0.125 µg/ml, 0.125 µg/ml, 0.125 µg/ml, >125.0 µg/ml, and 1.2 µg/ml, respectively.Cefuroxime sodium (10-100 µg/ml; 2-6 hours) rapidly bactericidal, its action is comparatively slow against the strains of <i>S. aureus</i>, but, even so, over 99% of the initial inoculum is killed by 6 h. The gram-negative organisms are killed rapidly, and in most cases over 99% of the very large inocula are killed within 2 h; the β-lactamase-producing strains are killed as quickly as non-enzyme-producing strains.(In Vivo):Rabbits (weighing 2.0 to 2.5 kg) are challenged intravenously with <i>S. aureus</i> strain 630 (a penicillinase-producing strain), the median effective dose of Cefuroxime sodium is 3 mg/kg as a result of the protection test.</p>
Target	Others
Purity	>98% (HPLC)
MW	446.37
Solubility (25°C)	DMSO: 19mg/mL
CAS Number	56238-63-2
Formula	C ₁₆ H ₁₅ N ₄ NaO ₈ S
SMILES	CO/N=C(/C1=CC=CO1)\C(=O)N[C@H]2[C@@H]3N(C2=O)C(=C(CS3)COC(=O)N)C(=O)[O-].[Na+]

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Chemical Name	sodium;(6R,7R)-3-(carbamoyloxymethyl)-7-[[[(2Z)-2-(furan-2-yl)-2-methoxyiminoacetyl]amino]-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylate
Storage	Storage temperature: -20°C. Stability: ≥ 2 years
Note	For research use only
Expiration Date	12 months from date of receipt.

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