LKT Laboratories, Inc.

Cefuroxime Sodium

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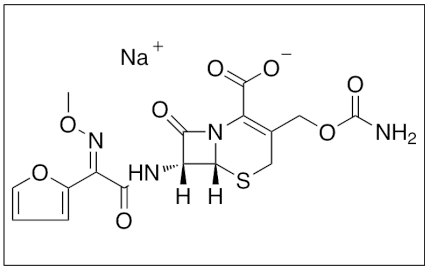
Product Information

Product ID C1624
CAS No. 56238-63-2
Chemical Name Monosodium (6R, 7R)-3-carbamoyloxymethyl-7-[(Z)-2-furan-2-yl-2-methoxyiminoacetylamino]-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2carboxylate
Synonym



Formula $C_{16}H_{15}N_4O_8SNa$
Formula Wt. 446.37
Melting Point
Purity ≥98%
Solubility Water, methanol

Bulk quanitites available upon request

Product ID	Size
C1624	1 g
C1624	5 g

Store Temp Ambient
Ship Temp Ambient
Description Cefuroxime is a second generation semi-synthetic cephalosporin antibiotic that inhibits penicillin binding proteins. Cefuroxime is a ß-lactam antibiotic that exhibits antibacterial activity against gram positive and gram negative bacteria, including species of *Haemophilus*, *Enterobacteriaceae*, *Staphylococcus*, and *Klebsiella*. Cefuroxime also displays immunomodulatory activity, as it downregulates expression of genes associated with Th2 and Treg differentiation in vitro.

References

Mor F, Cohen IR. Beta-lactam antibiotics modulate T-cell functions and gene expression via covalent binding to cellular albumin. Proc Natl Acad Sci U S A. 2013 Feb 19;110(8):2981-6. PMID: 23382225.

Abdullah FE, Mushtaq A, Irshad M, et al. Current efficacy of antibiotics against Klebsiella isolates from urine samples - a multi-centric experience in Karachi. Pak J Pharm Sci. 2013 Jan;26(1):11-5. PMID: 23261722.

Sykes RB, Griffiths A, Ryan DM. Comparative acitivity of ampicillin and cefuroxime against three types of Haemophilus influenzae. Antimicrob Agents Chemother. 1977 Apr;11(4):599-604. PMID: 301007.

Eykyn S, Jenkins C, King A, et al. Antibacterial activity of cefuroxime, a new cephalosporin antibiotic, compared with that of cephaloridine, cephalothin, and cefamandole. Antimicrob Agents Chemother. 1976 Apr;9(4):690-5. PMID: 1267441.