



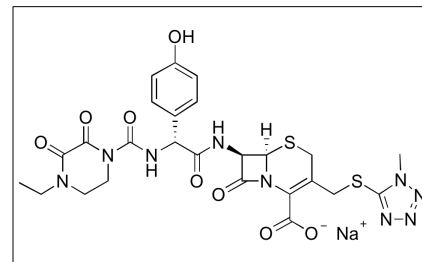
LKT Laboratories, Inc.

Cefoperazone Sodium

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Product Information

Product ID C1630
CAS No. 62893-20-3
Chemical Name (6R,7R)-7-[[[(2R)-[[[(4-Ethyl-2,3-dioxo-1-piperazinyl)- carbonyl]amino] (4-hydroxyphenyl)acetyl]amino]-3- [[[(1-methyl-1H-tetrazol-5-yl)thio] methyl]-8-oxo-5- thia-1-azabicyclo[4.2.0]oct-2-ene-2- carboxylic acid
Synonym Bioperazone, Cefazone, Cefobis, Cefoneg, Farecef, Novobiocyl, Perocef



Formula C₂₅H₂₆N₉NaO₈S₂
Formula Wt. 667.65
Melting Point 200-202°C
Purity ≥98%
Solubility Soluble in water to 75 mM.

Bulk quantities available upon request

Product ID	Size
C1630	1 g
C1630	5 g

Store Temp -20° C
Ship Temp Ambient

Description Cefoperazone is a third generation β-lactam cephalosporin antibiotic. Cefoperazone exhibits antibacterial efficacy against gram positive and gram negative bacteria, inhibiting penicillin binding proteins to prevent peptidoglycan synthesis and bacterial cell wall formation. Cefoperazone also inhibits mammalian mRNA splicing and is often given in combination with the β-lactamase sulbactam.

References Aukema KG, Chohan KK, Plourde GL, et al. Small molecule inhibitors of yeast pre-mRNA splicing. ACS Chem Biol. 2009 Sep 18;4(9):759-68. PMID: 19634919.

Mohanty S, Singhal R, Sood S, et al. Comparative in vitro activity of beta-lactam/beta-lactamase inhibitor combinations against gram negative bacteria. Indian J Med Res. 2005 Nov;122(5):425-8. PMID: 16456257.

Yotsuji A, Mitsuyama J, Hori R, et al. Mechanism of action of cephalosporins and resistance caused by decreased affinity for penicillin-binding proteins in Bacteroides fragilis. Antimicrob Agents Chemother. 1988 Dec;32(12):1848-53. PMID: 3266730.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.