



LKT Laboratories, Inc.

Cefazolin

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Product Information

Product ID C167200

CAS No. 25953-19-9

Chemical Name (6R,7R)-3-[(5-methyl-1,3,4-thiadiazol-2-yl)sulfanylmethyl]-8-oxo-7-[[2-(tetrazol-1-yl)acetyl]amino]-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid

Synonym Cephalozin, Cefazolin acid; Cephamezine

Formula C₁₄H₁₄N₈O₄S₃

Formula Wt. 454.50

Melting Point 197-200° C (dec)

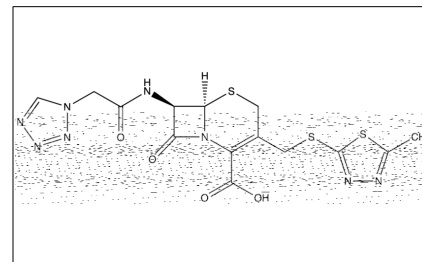
Purity ≥98%

Solubility

Store Temp 4° C

Ship Temp Ambient

Description Cefazolin is a beta-lactam antibiotic and first-generation cephalosporin with bactericidal activity. Cefazolin binds to and inactivates penicillin-binding proteins (PBP) located on the inner membrane of the bacterial cell wall. Inactivation of PBPs interferes with the cross-linkage of peptidoglycan chains necessary for bacterial cell wall strength and rigidity. This results in the weakening of the bacterial cell wall and causes cell lysis.
NCI Thesaurus (NCIt)
https://ncithesaurus.nci.nih.gov/ncitbrowser/ConceptReport.jsp?dictionary=NCI_Thesaurus&ncit=ncit&code=C2891



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
C167200	5 mg	\$54.20
C167200	25 mg	\$117.70
C167200	100 mg	\$300.40
C167200	500 mg	\$721.00

References Pagan-Rivera L, Godoy-Vitorino F, Melendez-Vazquez N, et al. The effect of cefazolin on the gut microbiome of female rats after spinal cord injury. *Microorganisms*. 2025 Oct 7;13(10):2324. PMID: 41156784.

Onita T, Ikawa K, Ishihara N, et al. Cerebrospinal pharmacokinetic modeling and pharmacodynamic simulation of high-dose cefazolin for meningitis caused by methicillin-susceptible *Staphylococcus aureus*. *Antibiotics (Basel)*. 2025 Oct 11;14(10):1008. PMID: 41148700.

Mellett M, Riel J, Corsini R, et al. The combinations of cefazolin with linezolid and cefazolin with clindamycin are indifferent against methicillin-susceptible *Staphylococcus aureus*. *Microbiol Spectr*. 2025 Sep 30:e0176325. PMID: 41025660.

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