



LKT Laboratories, Inc.

Cefaclor Monohydrate

Phone: 888-558-5227
651-644-8424
Fax: 888-558-7329
Email: getinfo@lktlabs.com
Web: lktlabs.com

Product Information

Product ID C1627

CAS No. 70356-03-5

Chemical Name (6R,7R)-7-[[[(2R)-Aminophenylacetyl]amino]-3-chloro-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid monohydrate

Synonym Alfacet, Ceclor, Distaclor, Panacef, Panoral

Formula $C_{15}H_{13}ClN_3O_4S \cdot H_2O$

Formula Wt. 385.83

Melting Point 327° C

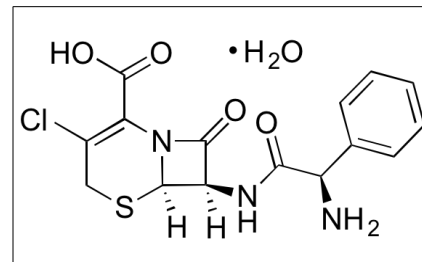
Purity ≥97%

Solubility Soluble in water. Practically insoluble in methanol, chloroform and benzene.

Store Temp Ambient

Ship Temp Ambient

Description Cefaclor is a second generation β-lactam cephalosporin antibiotic. Cefaclor exhibits antibacterial efficacy against gram positive and gram negative bacteria, inhibiting penicillin binding proteins to prevent peptidoglycan synthesis and bacterial cell wall formation. Cefaclor also displays immunomodulatory and gastrointestinal motility modulating activities. Cefaclor enhances phagocytosis and bactericidal activity of granulocytes and macrophages and increases T lymphocyte activity. Additionally, this compound slows gastric emptying and intestinal transit by stimulating release of cholecystokinin (CCK).



Bulk quantities available upon request

Product ID	Size
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C1627	100 mg
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C1627	500 mg
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C1627	1 g
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C1627	5 g
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References Berti AD, Sakoulas G, Nizet V, et al. β-Lactam antibiotics targeting PBP1 selectively enhance daptomycin activity against methicillin-resistant *Staphylococcus aureus*. *Antimicrob Agents Chemother*. 2013 Oct;57(10):5005-12. PMID: 23896478.

Dabrowski MP, Stankiewicz W. Desirable and undesirable immunotropic effects of antibiotics: immunomodulating properties of cefaclor. *J Chemother*. 2001 Dec;13(6):615-20. PMID: 11806622.

Bozkurt A, Deniz M, Yegen BC. Cefaclor, a cephalosporin antibiotic, delays gastric emptying rate by a CCK-A receptor-mediated mechanism in the rat. *Br J Pharmacol*. 2000 Oct;131(3):399-404. PMID: 11015288.

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