



LKT Laboratories, Inc.

Meropenem Sodium Carbonate

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Product Information

Product ID M1770

CAS No. 96036-03-2

Chemical Name (4R,5S,6S)-3-[[[(3S,5S)5-[(Dimethylamino)carbonyl]-3-pyrrolidinyl]thio]-6-((1R)-1-hydroxyethyl)-4-methyl-7-oxo-1-azabicyclo[3,2,0]hept-2-ene-2-carboxylic acid

Synonym Merrem

Formula C₁₇H₂₅N₃O₅S

Formula Wt. 383.46

Melting Point

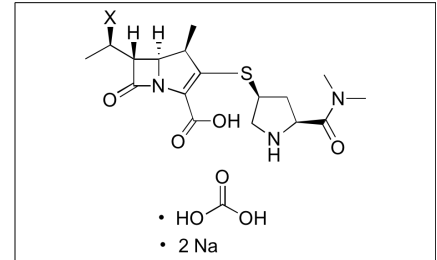
Purity ≥98%

Solubility Soluble in water

Store Temp 4° C

Ship Temp Ambient

Description Meropenem is a carbapenem β-lactam antibiotic that inhibits penicillin binding proteins, preventing cell wall synthesis. Meropenem exhibits antibacterial activity against *Morganella*, *Enterobacter*, *Klebsiella*, *Mycobacterium*, and *Bacillus*.



Bulk quantities available upon request

Product ID	Size
M1770	25 mg
M1770	100 mg
M1770	500 mg
M1770	1 g

References Guzek A, Tomaszewski D, Rybicki Z, et al. Comparison of in vitro efficacy of ertapenem, imipenem and meropenem in the infections caused by the Enterobacteriaceae strains family. *Anaesthesiol Intensive Ther.* 2013 Apr-Jun;45(2):67-72. PMID: 23877897.

Li WJ, Li DF, Hu YL, et al. Crystal structure of L,D-transpeptidase LdtMt2 in complex with meropenem reveals the mechanism of carbapenem against *Mycobacterium tuberculosis*. *Cell Res.* 2013 May;23(5):728-31. PMID: 23588382.

Louie A, VanScoy BD, Brown DL, et al. Impact of spores on the comparative efficacies of five antibiotics for treatment of *Bacillus anthracis* in an in vitro hollow fiber pharmacodynamic model. *Antimicrob Agents Chemother.* 2012 Mar;56(3):1229-39. PMID: 22155821.

Isozumi R, Yoshimatsu K, Yamashiro T, et al. bla(NDM-1)-positive *Klebsiella pneumoniae* from environment, Vietnam. *Emerg Infect Dis.* 2012 Aug;18(8):1383-1385. PMID: 22840532.

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