



LKT Laboratories, Inc.

Doripenem Hydrate

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Product Information

Product ID D5869

CAS No. 364622-82-2

Chemical Name (4R,5S,6S)-6-[(1R)-1-hydroxyethyl]-4-methyl-7-oxo-3-[(3S,5S)-5-[(sulfamoylamino)methyl]pyrrolidin-3-yl]sulfanyl-1-azabicyclo[3.2.1]

Synonym

Formula C₁₅H₂₄N₄O₆S₂ · H₂O

Formula Wt. 438.52

Melting Point

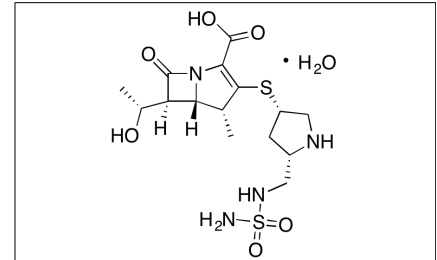
Purity ≥99%

Solubility

Store Temp Ambient

Ship Temp Ambient

Description Doripenem is a β-lactam carbapenem antibiotic that displays antibacterial activity against both gram-negative and gram-positive bacteria, especially *Pseudomonas* and *Enterobacteriaceae*. Doripenem binds penicillin-binding proteins 2 and 3 (PBP2/3), inhibiting cell wall peptidoglycan formation.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
D5869	10 mg	\$77.80
D5869	25 mg	\$155.80
D5869	100 mg	\$432.60

References Schneider KD, Ortega CJ, Renck NA, et al. Structures of the class D carbapenemase OXA-24 from *Acinetobacter baumannii* in complex with doripenem. *J Mol Biol.* 2011 Mar 4;406(4):583-94. PMID: 21215758.

Davies TA, Shang W, Bush K, et al. Affinity of doripenem and comparators to penicillin-binding proteins in *Escherichia coli* and *Pseudomonas aeruginosa*. *Antimicrob Agents Chemother.* 2008 Apr;52(4):1510-2. PMID: 18250190.

Jones RN, Huynh HK, Biedenbach DJ, et al. Doripenem (S-4661), a novel carbapenem: comparative activity against contemporary pathogens including bactericidal action and preliminary in vitro methods evaluations. *J Antimicrob Chemother.* 2004 Jul;54(1):144-54. PMID: 15190031.

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