



LKT Laboratories, Inc.

Doripenem Hydrate

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Product Information

Product ID D5869

CAS No. 364622-82-2

Chemical Name

Synonym

Formula $C_{15}H_{24}N_4O_6S_2 \cdot H_2O$

Formula Wt. 438.52

Melting Point

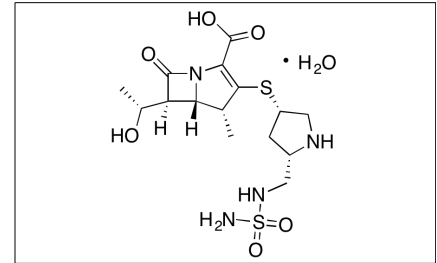
Purity $\geq 98\%$

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.



Bulk quantities available upon request

Product ID	Size
D5869	10 mg
D5869	25 mg
D5869	100 mg

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.