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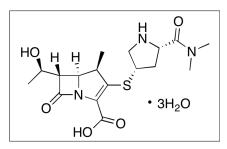
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Product Information

Product ID M1769 CAS No. 119478-56-7 Chemical Name

Synonym

Formula C₁₇H₂₅N₃O₅S・3H₂O Formula Wt. 437.51 Melting Point Purity ≥98% Solubility



Bulk quanitites available upon request

Product ID	Size
M1769	10 mg
M1769	50 mg
M1769	100 mg

Store Temp Ambient

Ship Temp Ambient

Description Meropenem is a β-lactam antibiotic that belongs to the family of carbapenems, active against all bacteria, with the most significant antibacterial activity against gram-negative species. Meropenem is somewhat resistant to degradation by β-lactamases and is used to treat bacterial meningitis, skin infections, and febrile neutropenia. This compound inhibits bacterial cell wall synthesis by binding penicillin-binding proteins 2 and 3 (PBP2/3), preventing formation of peptidoglycan.

References Mallick M, Odedra D, Vidyarthi AS, et al. Meropenem: a potent drug against superbug as unveiled through bioinformatics approaches. Int J Bioinform Res Appl. 2013;9(2):109-20. PMID: 23467058.

Pernot L, Frénois F, Rybkine T, et al. Crystal structures of the class D beta-lactamase OXA-13 in the native form and in complex with meropenem. J Mol Biol. 2001 Jul 20;310(4):859-74. PMID: 11453693.

Sumita Y, Fukasawa M. Potent activity of meropenem against Escherichia coli arising from its simultaneous binding to penicillinbinding proteins 2 and 3. J Antimicrob Chemother. 1995 Jul;36(1):53-64. PMID: 8537284.

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