Product Specification Sheet

Product Name: Doripenem
Catalog Number: C3674

Technical information:
Chemical Formula: C_{15}H_{24}N_{4}O_{6}S_{2}H_{2}O
CAS #: 148016-81-3
Molecular Weight: 438.52
Purity: > 99%
Appearance: White solid
Solubility: Soluble in DMSO up to 75 mM

Storage: Store solid powder at 4°C desiccated; Store DMSO solution at -20°C.
Shelf Life: In the unopened package, powder is stable for 1 year and DMSO solution is stable for 6 months under proper storage condition.

Handling:
• To make 10 mM stock solution, add 0.228 mL of DMSO for each mg of Doripenem
• For DMSO solution, briefly spin the vial at 500 rpm in a 50 mL conical tube to ensure maximum sample recovery.

Biological Activity:
Doripenem is a parenterally-administered antimicrobial of the carbapenem family, with minimum inhibitory concentrations (MIC) of 0.25 ug/mL in Pseudomonas aeruginosa and Escherichia coli. [1] Similar to other b-lactam antibiotics, Doripenem forms stable acyl-enzymes with pencillin-binding proteins, leading to the their inactivation and eventual cell wall rupture.

Doripenem is approved for the treatment of complicated intra-abdominal infections and urinary tract infections. It is active against gram-positive, gram-negative, and anaerobic organisms, and is stable against a wide variety of b-lactamases and renal dehydropeptidases. [2, 3]

Reference:
3. Greer et al., Doripenem (Doribax): the newest addition to the carbapenems. Proceedings, Baylor University Medical Center, 2008, 21(3), 337-341. Pubmed ID: 18628935

To reorder: http://www.cellagentech.com/Doripenem/
For Technical Support: technical@cellagentech.com

Chemicals are sold for research use only, not for clinical or diagnostic use.