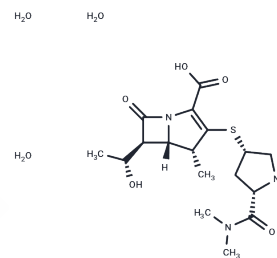


Meropenem trihydrate

Chemical Properties

CAS No. :	119478-56-7
Formula:	C ₁₇ H ₃₁ N ₃ O ₈ S
Molecular Weight:	437.51
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Meropenem trihydrate (SM 7338 trihydrate) is a carbapenem antibiotic with broad-spectrum antibacterial activity.
Targets(IC50)	Antibacterial, Antibiotic

Solubility Information

Solubility	DMSO: 250 mg/mL (571.42 mM), Sonication is recommended. H ₂ O: 12 mg/mL (27.43 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.57 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2857 mL	11.4283 mL	22.8566 mL
5 mM	0.4571 mL	2.2857 mL	4.5713 mL
10 mM	0.2286 mL	1.1428 mL	2.2857 mL
50 mM	0.0457 mL	0.2286 mL	0.4571 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Slaney, L., et al., In-vitro activity of meropenem against *Neisseria gonorrhoeae*, *Haemophilus influenzae* and *H. ducreyi* from Canada and Kenya. *J Antimicrob Chemother*, 1989. 24 Suppl A: p. 183-6.

Yang, Y.J. and D.M. Livermore, Interactions of meropenem with class I chromosomal beta-lactamases. *J Antimicrob Chemother*, 1989. 24 Suppl A: p. 207-17.

Makino, J., et al., [Pharmacokinetic study of penetration of meropenem into pleural effusion in patients with pleurisy]. *Jpn J Antibiot*, 2002. 55(1): p. 77-88.

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