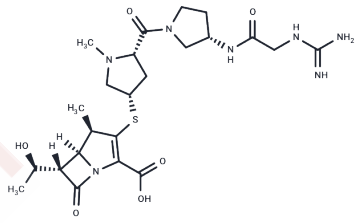
Data Sheet (Cat.No.T28992)

TargetMol

Tomopenem

Chemical Properties



CAS No. : 222400-20-6

Formula: C23H35N7O6S

Molecular Weight: 537.63

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	Tomopenem is a penem antibiotic.
Targets(IC50)	Others,Antibacterial

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.860 mL	9.3001 mL	18.6002 mL
5 mM	0.372 mL	1.860 mL	3.720 mL
10 mM	0.186 mL	0.930 mL	1.860 mL
50 mM	0.0372 mL	0.186 mL	0.372 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

Ansari MA, Shaikh S, Shakil S, Rizvi SM. An enzoinformatics study for prediction of efficacies of three novel penem antibiotics against New Delhi metallo-β-lactamase-1 bacterial enzyme. Interdiscip Sci. 2014 Sep;6(3):208-15. doi: 10.1007/s12539-013-0202-9. PubMed PMID: 25205498.

Ansari MA, Shaikh S, Shakil S, Rizvi SM. An enzoinformatics study for prediction of efficacies of three novel penem antibiotics against New Delhi metallo-β-lactamase-1 bacterial enzyme. Interdiscip Sci. 2014 Aug 9. [Epub ahead of print] PubMed PMID: 25118651.

Sugihara K, Tateda K, Yamamura N, Koga T, Sugihara C, Yamaguchi K. Efficacy of human-simulated exposures of tomopenem (formerly CS-023) in a murine model of Pseudomonas aeruginosa and methicillin-resistant Staphylococcus aureus infection. Antimicrob Agents Chemother. 2011 Nov;55(11):5004-9. doi: 10.1128/AAC.00068-11. PubMed PMID: 21844314; PubMed Central PMCID: PMC3195026.

Sugihara K, Sugihara C, Matsushita Y, Yamamura N, Uemori M, Tokumitsu A, Inoue H, Kakuta M, Namba E, Nasu H, Koga T. In vivo pharmacodynamic activity of tomopenem (formerly CS-023) against Pseudomonas aeruginosa and methicillin-resistant Staphylococcus aureus in a murine thigh infection model. Antimicrob Agents Chemother. 2010 Dec;54(12):5298-302. doi: 10.1128/AAC.00267-10. PubMed PMID: 20921311; PubMed Central PMCID: PMC2981229.