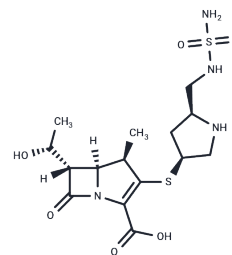


## Doripenem

## Chemical Properties

CAS No. :	148016-81-3
Formula:	C <sub>15</sub> H <sub>24</sub> N <sub>4</sub> O <sub>6</sub> S <sub>2</sub>
Molecular Weight:	420.5
Storage:	Keep away from moisture, Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



## Biological Description

Description	Doripenem is a new parenteral carbapenem antibiotic with broad-spectrum activity against gram-negative and gram-positive pathogens.
Targets(IC50)	Antibacterial, Antibiotic

## Solubility Information

Solubility	H <sub>2</sub> O: 7.14 mg/mL (16.98 mM), Sonication is recommended. DMSO: 245 mg/mL (582.64 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: 5 mg/mL (11.89 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	2.3781 mL	11.8906 mL	23.7812 mL
5 mM	0.4756 mL	2.3781 mL	4.7562 mL
10 mM	0.2378 mL	1.1891 mL	2.3781 mL
50 mM	0.0476 mL	0.2378 mL	0.4756 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

Wagenlehner, Florian, M, et al. Ceftazidime-avibactam Versus Doripenem for the Treatment of Complicated Urinary Tract Infections, Including Acute Pyelonephritis: RECAPTURE, a Phase 3 Randomized Trial Program[J]. Clinical Infectious Diseases, 2016.

Jones RN, 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. Epub 2004 Jun 9.

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