



Product Information

Product ID I4934

CAS No. 74431-23-5

Chemical Name

Synonym

Formula $C_{12}H_{17}N_3O_4S \cdot H_2O$

Formula Wt. 317.36

Melting Point 106-111 °C

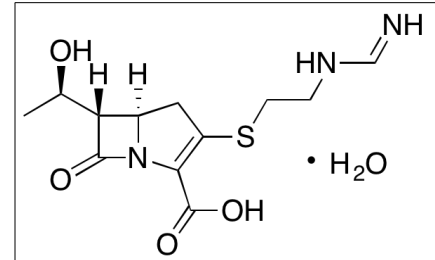
Purity $\geq 98\%$

Solubility Water 10 mg/ml, methanol
5 mg/ml, ethanol 0.2
mg/ml

Store Temp Ambient

Ship Temp Ambient

Description Imipenem is a β -lactam carbapenem antimicrobial. Imipenem exhibits broad-spectrum antibacterial activity against both gram positive and gram negative bacteria; it is especially active against *Pseudomonas aeruginosa* as well as species of *Enterococcus*. Like other β -lactam antibiotics, imipenem prevents bacterial cell wall synthesis by inhibiting penicillin binding proteins.



Bulk quantities available upon request

Product ID	Size
I4934	25 mg
I4934	100 mg
I4934	500 mg

References El-Gamal MI, Oh CH. Current status of carbapenem antibiotics. *Curr Top Med Chem*. 2010;10(18):1882-97. PMID: 20615191.

Clissold SP, Todd PA, Campoli-Richards DM. Imipenem/cilastatin. A review of its antibacterial activity, pharmacokinetic properties and therapeutic efficacy. *Drugs*. 1987 Mar;33(3):183-241. PMID: 3552595.

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