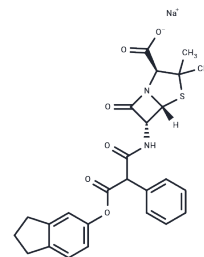


Carindacillin sodium

Chemical Properties

CAS No. :	26605-69-6
Formula:	C ₂₆ H ₂₅ N ₂ NaO ₆ S
Molecular Weight:	516.54
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Carindacillin sodium is an orally active prodrug of carbenicillin, a penicillin antibiotic that exerts broad-spectrum antibacterial activity by interfering with cell wall synthesis.
Targets(IC50)	Antibacterial
In vitro	Carindacillin sodium is active against a broad spectrum of bacterial species in vitro, effectively inhibiting the growth of both Gram-positive and Gram-negative strains [1].
In vivo	Oral administration of Carindacillin sodium protects mice against lethal infections from pathogens like E. coli and S. aureus, with PD95 values ranging from 30.4 to 220.4 mg/kg [1].

Solubility Information

Solubility	DMSO: 250 mg/mL (483.99 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.936 mL	9.6798 mL	19.3596 mL
5 mM	0.3872 mL	1.936 mL	3.8719 mL
10 mM	0.1936 mL	0.968 mL	1.936 mL
50 mM	0.0387 mL	0.1936 mL	0.3872 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

English AR, et, al. Carbenicillin indanyl sodium, an orally active derivative of carbenicillin. Antimicrob Agents Chemother. 1972 Mar;1(3):185-91.

Ries KM, et, al. Comparison of carbenicillin indanyl sodium, ampicillin, and cephaloglycin in treatment of urinary-tract infection. J Infect Dis. 1973 May;127:Suppl:148-53.

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