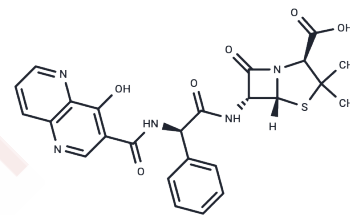


Apalcillin

Chemical Properties

CAS No. :	63469-19-2
Formula:	C ₂₅ H ₂₃ N ₅ O ₆ S
Molecular Weight:	521.55
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	Apalcillin (PC-904) combined with Ro 48-1220 (a penicillin sulfone β -lactamase inhibitor) exhibits broad-spectrum activity against Gram-negative aerobic and anaerobic bacteria, excluding Klebsiella acid-producing strains. This combination shows strong efficacy against β -lactamase-producing Moraxella catarrhalis, Haemophilus influenzae, and Neisseria gonorrhoeae with an effective MIC of 11 μ g/mL. Additionally, it inhibits Pseudomonas aeruginosa, Stenotrophomonas maltophilia, and Acinetobacter at low MICs (0.25 to 4 μ g/mL). However, it has limited efficacy against oxacillin-resistant staphylococci and some Gram-positive bacteria. Apalcillin/Ro 48-1220's effectiveness against certain extended-spectrum β -lactamase-producing Escherichia coli is comparable to piperacillin/tazobactam, though it is less effective against SHV-type β -lactamases.
Targets(IC50)	Antibacterial

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9174 mL	9.5868 mL	19.1736 mL
5 mM	0.3835 mL	1.9174 mL	3.8347 mL
10 mM	0.1917 mL	0.9587 mL	1.9174 mL
50 mM	0.0383 mL	0.1917 mL	0.3835 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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