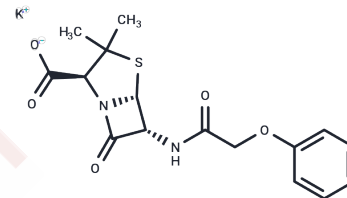


Penicillin V Potassium

Chemical Properties

CAS No. :	132-98-9
Formula:	C ₁₆ H ₁₇ KN ₂ O ₅ S
Molecular Weight:	388.48
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	Penicillin V Potassium (Phenoxymethylpenicillin potassium salt) is an orally administered, broad-spectrum penicillin antibiotic used for treating mild to moderate infections caused by susceptible gram-positive organisms.
Targets(IC50)	Antibacterial, Antibiotic

Solubility Information

Solubility	H ₂ O: 110 mg/mL (283.15 mM), Sonication and heating are recommended. DMSO: 15.94 mg/mL (41.03 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 1.59 mg/mL (4.09 mM), Solution. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (2.57 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	2.5741 mL	12.8707 mL	25.7414 mL
5 mM	0.5148 mL	2.5741 mL	5.1483 mL
10 mM	0.2574 mL	1.2871 mL	2.5741 mL
50 mM	0.0515 mL	0.2574 mL	0.5148 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

Sánchez-Morillas L, et al. Recent Pat Inflamm Allergy Drug Discov. 2014 Jan;8(1):74-6.

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