

Procaine penicillin G

Chemical Properties

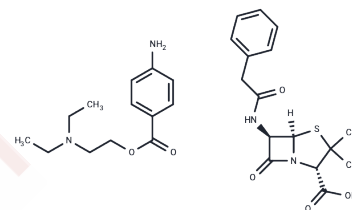
CAS No. : 54-35-3

Formula: C₂₉H₃₈N₄O₆S

Molecular Weight: 570.7

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	Procaine penicillin G (Duphaphen) (procaine benzylpenicillin) is an antibiotic useful for the treatment of a number of bacterial infections. Specifically, it is used for syphilis, anthrax, mouth infections, pneumonia, diphtheria, cellulitis, and animal bites.
Targets(IC50)	Antibacterial, Antibiotic

Solubility Information

Solubility	DMSO: 55 mg/mL (96.37 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	1.7522 mL	8.7612 mL	17.5223 mL
5 mM	0.3504 mL	1.7522 mL	3.5045 mL
10 mM	0.1752 mL	0.8761 mL	1.7522 mL
50 mM	0.035 mL	0.1752 mL	0.3504 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

Sahin U, et al. Penicillin resistance in Streptococcus pneumoniae in Isparta. Respiriology. 2001 Mar;6(1):23-6. Review. PubMed PMID: 11264759.

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