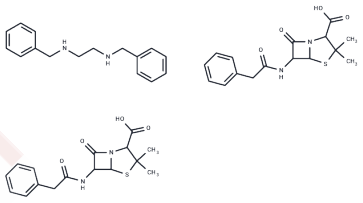
Data Sheet (Cat.No.T16465)

TargetMol

Penicillin G benzathine

Chemical Properties



CAS No. : 1538-09-6

Formula: C48H56N6O8S2

Molecular Weight: 909.13

Storage: Keep away from direct sunlight
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 G benzathine has anti-bacterial infectious activity and can be used to study early syphilis.
Targets(IC50)	Antibacterial,Antibiotic
In vivo	Penicillin G benzathine demonstrates activity and an antibacterial effect in CD-I mice infected with Staphylococcus aureus Smith.[2]

Solubility Information

Solubility	DMSO: 45 mg/mL (49.5 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.100 mL	5.4998 mL	10.9995 mL
5 mM	0.220 mL	1.100 mL	2.1999 mL
10 mM	0.110 mL	0.550 mL	1.100 mL
50 mM	0.022 mL	0.110 mL	0.220 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

Bowen AC, et al. Short-course oral co-trimoxazole versus intramuscular benzathine benzylpenicillin for impetigo in a highly endemic region: an open-label, randomised, controlled, non-inferiority trial. Lancet. 2014 Dec 13;384 (9960):2132-40.

J A Yurchenco, et al. Substituted Penicillin Amides. Duration of Antibacterial Activity (Depot Effect) in Experimental Infections in Mice. Chemotherapy . 1972;17(6):405-15.

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