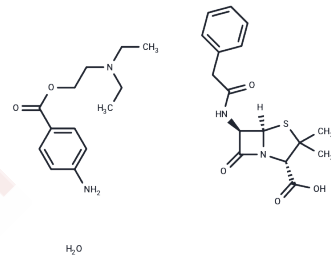


Penicillin G procaine hydrate

Chemical Properties

CAS No. :	6130-64-9
Formula:	C ₂₉ H ₄₀ N ₄ O ₇ S
Molecular Weight:	588.72
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Penicillin G procaine hydrate is a compound formulation combining the antibiotic Penicillin G and the local anaesthetic procaine, serving to release the drug slowly and alleviate pain, with inhibitory activity against Gram-positive bacteria.
Targets(IC50)	Antibacterial, Antibiotic

Solubility Information

Solubility	H ₂ O: 2 mg/mL (3.4 mM), Sonication is recommended. DMSO: 200 mg/mL (339.72 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 3.3 mg/mL (5.61 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	1.6986 mL	8.493 mL	16.986 mL
5 mM	0.3397 mL	1.6986 mL	3.3972 mL
10 mM	0.1699 mL	0.8493 mL	1.6986 mL
50 mM	0.034 mL	0.1699 mL	0.3397 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

Uboh CE, et al. Pharmacokinetics of penicillin G procaine versus penicillin G potassium and procaine hydrochloride in horses. *Am J Vet Res.* 2000 Jul;61(7):811-5.

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