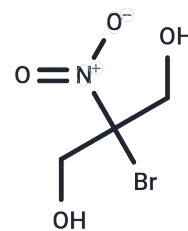


Bronopol

Chemical Properties

CAS No. :	52-51-7
Formula:	C ₃ H ₆ BrNO ₄
Molecular Weight:	199.99
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	Bronopol (BNPD) is an antimicrobial agent with low mammalian toxicity (at in-use levels) and high activity against bacteria, especially the troublesome Gram-negative species.
Targets(IC50)	Antibacterial

Solubility Information

Solubility	H ₂ O: 36 mg/mL (180.01 mM),Sonication is recommended. DMSO: 245 mg/mL (1225.06 mM),Sonication is recommended. Ethanol: 37 mg/mL (185.01 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 10 mg/mL (50 mM),Solution. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (10 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	5.0003 mL	25.0013 mL	50.0025 mL
5 mM	1.0001 mL	5.0003 mL	10.0005 mL
10 mM	0.500 mL	2.5001 mL	5.0003 mL
50 mM	0.100 mL	0.500 mL	1.0001 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

Matczuk M, et al. Int J Cosmet Sci. 2012 Oct;34(5):451-7.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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