Bronopol

Cat. No.: HY-B1217

CAS No.: 52-51-7

Molecular Formula: $C_3H_6BrNO_4$

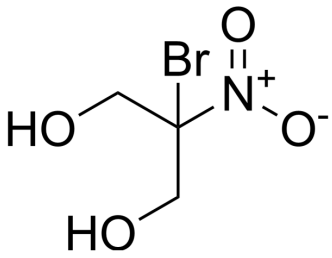
Molecular Weight: 199.99

Target: Bacterial

Pathway: Anti-infection

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	2 years
	-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (500.02 mM; Need ultrasonic)

H_2O : 100 mg/mL (500.02 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	5.0002 mL	25.0012 mL	50.0025 mL
	5 mM	1.0000 mL	5.0002 mL	10.0005 mL
	10 mM	0.5000 mL	2.5001 mL	5.0002 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: PBS
   Solubility: 50 mg/mL (250.01 mM); Clear solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (12.50 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (12.50 mM); Clear solution
4. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (12.50 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Bronopol is an antibacterial agent with low toxicity (to mammals) and high activity (especially against Gram-negative bacteria).

REFERENCES

[1]. Shepherd JA, et al. Antibacterial action of 2-bromo-2-nitropropane-1,3-diol (bronopol). Antimicrob Agents Chemother. 1988 Nov;32(11):1693-8.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA