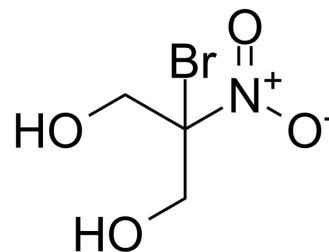


## Bronopol

<b>Cat. No.:</b>	HY-B1217		
<b>CAS No.:</b>	52-51-7		
<b>Molecular Formula:</b>	C <sub>3</sub> H <sub>6</sub> BrNO <sub>4</sub>		
<b>Molecular Weight:</b>	199.99		
<b>Target:</b>	Bacterial		
<b>Pathway:</b>	Anti-infection		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (500.02 mM; Need ultrasonic)  
 H<sub>2</sub>O : 100 mg/mL (500.02 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
<b>1 mM</b>	5.0002 mL	25.0012 mL	50.0025 mL
<b>5 mM</b>	1.0000 mL	5.0002 mL	10.0005 mL
<b>10 mM</b>	0.5000 mL	2.5001 mL	5.0002 mL

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

#### In Vivo

- 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
- 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
- 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 antimicrobial, with low mammalian toxicity (at in-use levels) and high activity against bacteria (especially the troublesome Gram-negative species).

### REFERENCES

**Caution: Product has not been fully validated for medical applications. For research use only.**

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