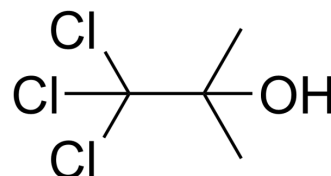


Chlorobutanol

Cat. No.:	HY-B1263		
CAS No.:	57-15-8		
Molecular Formula:	C ₄ H ₇ Cl ₃ O		
Molecular Weight:	177.46		
Target:	Bacterial; Fungal		
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 (563.51 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	5.6351 mL	28.1754 mL	56.3507 mL
5 mM	1.1270 mL	5.6351 mL	11.2701 mL
10 mM	0.5635 mL	2.8175 mL	5.6351 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 (14.09 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (14.09 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (14.09 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Chlorobutanol is a pharmaceutical preservative. Chlorobutanol is active against a wide variety of Gram-positive and Gram-negative bacteria, and several mold spores and fungi. Chlorobutanol is widely used in food and cosmetic industry^{[1][2]}.

REFERENCES

- [1]. Smoak IW, et al. Chlorobutanol: maternal serum levels and placental transfer in the mouse. *Vet Hum Toxicol*. 1997 Oct;39(5):287-90.

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

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