Hexetidine

Cat. No.: HY-B0996

CAS No.: 141-94-6

Molecular Formula: $C_{21}H_{45}N_3$

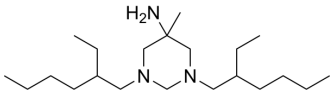
Molecular Weight: 339.6

Target: Bacterial; Fungal

Pathway: Anti-infection

Storage:

Pure form	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 200 mg/mL (588.93 mM; ultrasonic and warming and heat to 80°C)
Ethanol : 100 mg/mL (294.46 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.9446 mL	14.7232 mL	29.4464 mL
5 mM	0.5889 mL	2.9446 mL	5.8893 mL
10 mM	0.2945 mL	1.4723 mL	2.9446 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (6.12 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (6.12 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (6.12 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Hexetidine is an orally active antiseptic with broad antibacterial and antifungal activity. Hexetidine give important potential for treatment of oral infections[1].

REFERENCES

[1]. Afennich F, et al. The effect of hexetidine mouthwash on the prevention of plaque and gingival inflammation: a systematic review.Int J Dent Hyg. 2011 Aug;9(3):182-90.

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