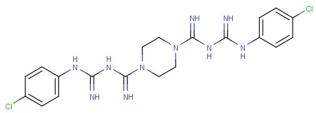
Data Sheet (Cat.No.T12470)

TargetMol
A DRUG SCREENING EXPERT

Picloxydine

Chemical Properties



CAS No.:	5636-92-0
Formula:	C20H24Cl2N10
Molecular Weight:	475.38
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Picloxydine is a heterocyclic biguanide with antiplaque and antibacterial activity.
Targets(IC_{50})	Bacterial: None
In vivo	While picloxydine in higher concentration suppressed the oral flora more effectively than chlorhexidine, the latter agent inhibited plaque development to a much greater extent. This lack of correlation between antibacterial and antiplaque activity can be related to structural differences between these two bis-biguanides[1].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.104 mL	10.518 mL	21.036 mL
5 mM	0.421 mL	2.104 mL	4.207 mL
10 mM	0.21 mL	1.052 mL	2.104 mL
50 mM	0.042 mL	0.21 mL	0.421 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Newcomb GM, et al. An in vivo comparison of chlorhexidine and picloxydine mouthrinses: a possible association between chemical structure and antiplaque activity. J Periodontol. 1977 May;48(5):282-4.
2. Obikili AG, et al. A double-blind comparison of picloxydine dihydrochloride (Vitabact eye drops) and sulfacetamide eye drops in the topical therapy of trachoma. Rev Int Trach Pathol Ocul Trop Subtrop Sante Publique. 1988;65(3-4):119-32.

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