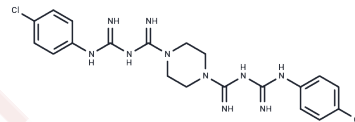


Picloxydine

Chemical Properties

CAS No. :	5636-92-0
Formula:	C ₂₀ H ₂₄ Cl ₂ N ₁₀
Molecular Weight:	475.38
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Picloxydine, a heterocyclic biguanide, possesses antiplaque and antibacterial activity.
Targets(IC50)	Antibacterial
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	DMSO: 2 mg/mL (4.21 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1036 mL	10.5179 mL	21.0358 mL
5 mM	0.4207 mL	2.1036 mL	4.2072 mL
10 mM	0.2104 mL	1.0518 mL	2.1036 mL
50 mM	0.0421 mL	0.2104 mL	0.4207 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.

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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