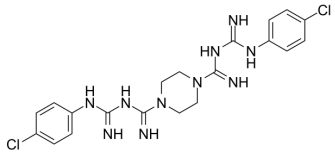
Picloxydine

Cat. No.:	HY-U00120
CAS No.:	5636-92-0
Molecular Formula:	$C_{20}H_{24}Cl_2N_{10}$
Molecular Weight:	475.38
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro

DMSO : 11.36 mg/mL (23.90 mM; ultrasonic and warming and adjust pH to 5 with HCl and heat to 60°C)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	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

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

BIOLOGICAL ACTIVITY

Description

Picloxydine is a heterocyclic biguanide with antibacterial and antiplaque activity.

IC_{50} & Target

Bacterial[1]

In Vivo

0.4% Picloxydine produces a highly significant drop in the number of aerobic organisms. 0.4% Picloxydine is far more effective than 0.2% Picloxydine or chlorhexidine in reducing the total viable count of oral aerobic and anaerobic organisms [1]. Picloxydine is also used in eye drops in the topical therapy of trachoma[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[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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