
Product Data Sheet

Product Name: Chlorhexidine digluconate (20% in water)

Cat. No.: GC16201

Chemical Properties

Cas. No. 18472-51-0

SMILES C1=CC=C(NC(NC(NCCCCCNC(NC(NC2=CC=C(Cl)C=C2)=N)=N)=N)=N)C=C1.OC[C@](O)([H])[C@](O)([H])[C@@](O)([H])[C@](O)([H])C(O)=O.OC[C@](O)([H])[C@](O)([H])[C@@](O)([H])[C@](O)([H])C(O)=O

Formula C₃₄H₅₄Cl₂N₁₀O₁₄

M.Wt 897.76

Solubility ≥ 36.4mg/mL in DMSO

Storage Store at -20°C

General For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the tips ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution : ship with blue ice All other available size: ship with RT , or Condition blue ice upon request.

Structure **Background**

Chlorhexidine digluconate is an antiseptic effective against a wide variety of gram-negative and gram-positive organisms. Target: Antibacterial Chlorhexidine digluconate is a chemical antiseptic. It is effective on both Gram-positive and Gram-negative bacteria, although it is less effective with some Gram-negative bacteria. It has both bactericidal and bacteriostatic mechanisms of action, the mechanism of action being membrane disruption, not ATPase inactivation as previously thought. It is also useful against fungi and enveloped viruses, though this has not been extensively investigated. Chlorhexidine digluconate is harmful in high concentrations, but is used safely in low concentrations in many products, such as mouthwash and contact lens solutions [1, 2].

References:

[1]. Jenkins, S., M. Addy, and W. Wade, The mechanism of action of chlorhexidine. A study of plaque growth on enamel inserts in vivo. J Clin Periodontol, 1988. 15(7): p. 415-24.

[2]. Maki, D.G., M. Ringer, and C.J. Alvarado, Prospective randomised trial of povidone-iodine, alcohol, and chlorhexidine for prevention of infection associated with central venous and arterial catheters. Lancet, 1991. 338(8763): p. 339-43.

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

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