

Chlorhexidine-D8 hydrochloride

Chemical Properties

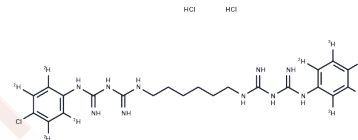
CAS No. : 2012598-75-1

Formula: C₂₂H₂₄D₈Cl₄N₁₀

Molecular Weight: 586.4168

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	Chlorhexidine-D8 hydrochloride is intended for use as an internal standard for the quantification of chlorhexidine by GC- or LC-MS. Chlorhexidine is a bis (biguanide) antimicrobial disinfectant and antiseptic agent. It inhibits growth of clinical methicillin-resistant <i>S. aureus</i> (MRSA) isolates (MIC ₉₀ = 4 µg/ml). It is also active against canine isolates of MRSA, methicillin-susceptible <i>S. aureus</i> (MSSA), methicillin-resistant <i>S. pseudintermedius</i> (MRSP), and methicillin-susceptible <i>S. pseudintermedius</i> (MSSP; MIC ₉₀ s = 4, 2, 2, and 1 mg/L, respectively). Chlorhexidine inhibits growth of <i>E. faecium</i> strains (MICs = 1.2-19.6 µg/ml) and <i>C. albicans</i> (MIC = 5.15 µg/ml). It generates cations that bind to and destabilize the bacterial cell wall to induce death. ⁶ Chlorhexidine also completely inhibits matrix metalloproteinase-2 (MMP-2) and MMP-9 when used at concentrations of 0.0001 and 0.002%, respectively, in a gelatin degradation assay. Formulations containing chlorhexidine have been used in antisept.....
Targets(IC50)	Antibacterial, Antibiotic

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7053 mL	8.5263 mL	17.0526 mL
5 mM	0.3411 mL	1.7053 mL	3.4105 mL
10 mM	0.1705 mL	0.8526 mL	1.7053 mL
50 mM	0.0341 mL	0.1705 mL	0.3411 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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