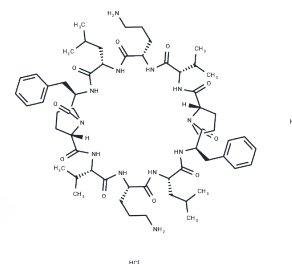


Gramicidin S 2HCl

Chemical Properties

CAS No. :	15207-30-4
Formula:	C ₆₀ H ₉₄ Cl ₂ N ₁₂ O ₁₀
Molecular Weight:	1214.37
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	Gramicidin S 2HCl, is an antibiotic. At concentrations of 40-80 µg/mL, GS can reduce planktonic cell numbers within 20-40 minutes. For established biofilms, it effectively kills cells at concentrations of 100-200 µg/mL without regrowth. This anti-biofilm effect results from peptide transmembrane transport and complexation with intracellular nucleotides (including the alarmone ppGpp). GS demonstrates wide-ranging activity against biofilm-forming, drug-resistant infections caused by <i>E. faecalis</i> , proving its efficacy in endodontic treatment. The successful treatment of persistent infections in two volunteer cases further confirms GS's potent therapeutic performance. These studies indicate that GS can be applied in certifying compounds used in endodontics.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.8235 mL	4.1174 mL	8.2347 mL
5 mM	0.1647 mL	0.8235 mL	1.6469 mL
10 mM	0.0823 mL	0.4117 mL	0.8235 mL
50 mM	0.0165 mL	0.0823 mL	0.1647 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

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