

Enterocin K1

Chemical Properties

CAS No. :	2764845-22-7
Formula:	C ₂₁₈ H ₃₂₁ N ₅₃ O ₅₁ S ₂
Molecular Weight:	4564.34
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

Biological Description

Description	Enterocin K1 (EntK1) is a ribosomally synthesized bacteriocin with potent antibacterial activity against Vancomycin-resistant Enterococcus (VRE), specifically targeting Enterococcus faecalis through interaction with the Eep protein on the bacterial membrane. The compound shows promise for research into VRE infections [1].
Targets(IC50)	Antibacterial
In vitro	Enterocin K1 exhibits antimicrobial activity with MIC (Minimum Inhibitory Concentration) values ranging from 0.048 to 1.56 mg/mL against various enterococci [1]. No significant hemolytic effect on human erythrocytes was observed with Enterocin K1 at concentrations of 0.01, 0.1, and 1 mg/mL in whole blood [1]. Additionally, Enterocin K1, at a concentration of 1 mg/mL over 0-48 hours, demonstrated an enhanced inhibitory effect on bacteriocins in plasma—twofold higher than in saline—and in whole blood—twofold higher than in plasma [1]. In the spot-on-lawn assay, Enterocin K1 (with 10 µl of 1 mg/mL over 24 hours) showed that most MIC values against bacteriocins were greater than 25 mg/mL, indicating cross-resistance [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2191 mL	1.0954 mL	2.1909 mL
5 mM	0.0438 mL	0.2191 mL	0.4382 mL
10 mM	0.0219 mL	0.1095 mL	0.2191 mL
50 mM	0.0044 mL	0.0219 mL	0.0438 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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