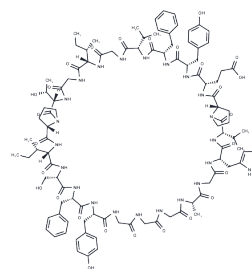


Microcin J25

Chemical Properties

CAS No. :	622787-00-2
Formula:	C101H139N23O27
Molecular Weight:	2107.32
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	Microcin J25 (MccJ25) is a cyclic peptide antibiotic and ribosomal synthesis post-translational modification peptide (RiPP) produced by Escherichia coli. It inhibits DNA-dependent RNA polymerase (RNAP) in Gram-negative bacteria and exhibits antibacterial activity.
Targets(IC50)	Antibacterial, Antibiotic, DNA/RNA Synthesis

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.4745 mL	2.3727 mL	4.7454 mL
5 mM	0.0949 mL	0.4745 mL	0.9491 mL
10 mM	0.0475 mL	0.2373 mL	0.4745 mL
50 mM	0.0095 mL	0.0475 mL	0.0949 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.

Reference

Tan HN, et al. Structure Prediction and Protein Engineering Yield New Insights into Microcin J25 Precursor Recognition. ACS Chem Biol. 2024;19(9):1982-1990.

Wilson KA, et al. Structure of microcin J25, a peptide inhibitor of bacterial RNA polymerase, is a lassoed tail. J Am Chem Soc. 2003;125(41):12475-12483.

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