

Product datasheet

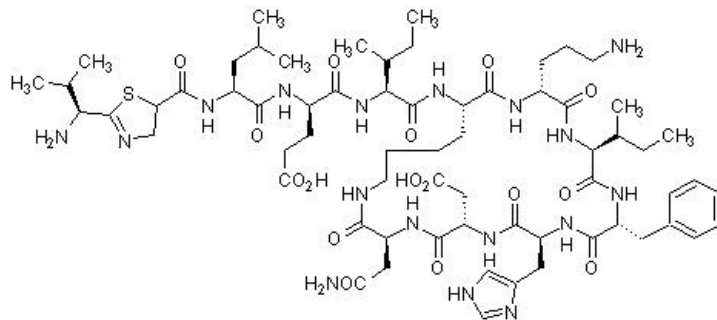
Bacitracin, Peptide antibiotic ab145764

Overview

Product name	Bacitracin, Peptide antibiotic
Description	Peptide antibiotic
Biological description	Potent antibiotic. Mixture of related cyclic polypeptides produced by organisms of the licheniformis group of <i>Bacillus subtilis</i> var Tracy, which disrupts gram positive and some gram negative bacteria by interfering with cell wall and peptidoglycan synthesis. Acts bactericidally by binding to isoprenyl pyrophosphate, the lipid carrier that transfers N-acetylmuramyl-N-acetylglucosamyl-amino acid cell wall building blocks across the cytoplasmic membrane. Inhibits enzymatic dephosphorylation of C55-isoprenyl pyrophosphate.

CAS Number 1405-87-4

Chemical structure



Properties

Molecular weight	1408.67
Molecular formula	C ₆₅ H ₁₀₁ N ₁₇ O ₁₆ S
Storage instructions	Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.
Solubility overview	Soluble in DMSO to 50 mM and in water to 50 mM
Handling	Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour. Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.
Source	Synthetic

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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