

Gramicidin S

PRODUCT DESCRIPTION

Gramicidin S is a 26-amino-acid synthetic peptide. A synthetic peptide used as a research tool in biochemistry, pharmacology, and biomedical research. This peptide enables the study of protein-protein interactions, receptor binding, enzyme substrate specificity, and signal transduction pathways. Available in high purity (>=95% by HPLC) as a lyophilized powder for reconstitution in appropriate buffers.

PRODUCT SPECIFICATIONS

Catalog Number	BPT2154
CAS Number	113-73-5
Molecular Weight	1141.4432 Da
Molecular Formula	C60H92N12O10
Purity	Peak Area by HPLC >=95%
Form	Lyophilized
Source	Synthetic (Chemical Synthesis, SPPS)
Endotoxin	N/A (Synthetic peptide)

AMINO ACID SEQUENCE

One-Letter Code:

LfPV{Orn}LfPV{Orn}(Lactam:Leu1-{Orn}10)

Three-Letter Code:

Leu-{D-Phe}-Pro-Val-{Orn}-Leu-{D-Phe}-Pro-Val-{Orn}(Lactam:Leu1-{Orn}10)

RESEARCH APPLICATIONS

Application	Antimicrobial activity
Biomarker Target	Bacterial Membrane
Research Area	Infectious Disease
Sub-category	Antibiotic Peptides

STORAGE & HANDLING

Storage Temperature	-20 deg C
Form	Lyophilized
Stability	Lyophilized product stable for 24 months at -20 deg C
Reconstitution	Reconstitute in sterile water or appropriate buffer
After Reconstitution	Aliquot and store at -20 to -80 deg C
Avoid	Repeated freeze-thaw cycles

AVAILABLE SIZES

Size Options	1 mg, 10 mg
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Purity Method	HPLC, Mass Spectrometry (MS)
Identity	Confirmed by ESI-MS or MALDI-TOF
Purity	Peak Area by HPLC >=95%
Documentation	Certificate of Analysis (CoA) available upon request