

Microcystin-RR

PRODUCT DESCRIPTION

Microcystin-RR is a 119-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	BPT0350
CAS Number	111755-37-4
Molecular Weight	1038.1967 Da
Molecular Formula	C49H75N13O12
Purity	Peak Area by HPLC >=95%
Form	Lyophilized
Source	Synthetic (Chemical Synthesis, SPPS)
Endotoxin	N/A (Synthetic peptide)

AMINO ACID SEQUENCE

One-Letter Code:

{Cyclo[2,3-didehydro-N-methylalanyl-D-alanyl-L-arginyl-(3S)-3-methyl-D-beta-aspartyl-L-arginyl-(2S,3S,4E,6E,8S,9S)-3-amino-9-methoxy-2,6,8-trimethyl-10-phenyl-4,6-decadienoyl-D-gamma-glutamyl]}

Three-Letter Code:

H-{Cyclo[2,3-didehydro-N-methylalanyl-D-alanyl-L-arginyl-(3S)-3-methyl-D-beta-aspartyl-L-arginyl-(2S,3S,4E,6E,8S,9S)-3-amino-9-methoxy-2,6,8-trimethyl-10-phenyl-4,6-decadienoyl-D-gamma-glutamyl]}-OH

RESEARCH APPLICATIONS

Application	Receptor binding
Biomarker Target	Disulfide-bonded Target
Research Area	Pharmacology
Sub-category	Receptor Ligands & Peptide Drugs

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
Usage	Research use

QUALITY CONTROL

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