

[Arg14,20,21, Leu16]-PACAP (1-27), amide, human, ovine, rat

PRODUCT DESCRIPTION

[Arg14,20,21, Leu16]-PACAP (1-27), amide, human, ovine, rat is a 29-amino-acid A peptide related to the vasoactive intestinal peptide (VIP) / PACAP family, a 28-amino-acid neuropeptide that signals through VPAC1 and VPAC2 receptors. VIP mediates vasodilation, smooth muscle relaxation, exocrine secretion, immune modulation, and circadian rhythm regulation. Used in immunology, neuroscience, and gastrointestinal research.

PRODUCT SPECIFICATIONS

Catalog Number	BPT1817
Molecular Weight	3213.6003 Da
Molecular Formula	C143H226N46O39
Purity	Peak Area by HPLC >=95%
Form	Lyophilized
Source	Synthetic (Chemical Synthesis, SPPS)
Endotoxin	N/A (Synthetic peptide)

AMINO ACID SEQUENCE

One-Letter Code:

HSDGIFTDSYSRYRRQLAVRRYLAAVL -NH2

Three-Letter Code:

H-His-Ser-Asp-Gly-Ile-Phe-Thr-Asp-Ser-Tyr-Ser-Arg-Tyr-Arg-Arg-Gln-Leu-Ala-Val-Arg-Arg-Tyr-Leu-Ala-Ala-Val-Leu-NH2

RESEARCH APPLICATIONS

Application	Receptor binding
Biomarker Target	VIP/PACAP Receptors (VPAC1/2)
Research Area	Neuroscience
Sub-category	VIP/PACAP Signaling

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