

[Ala11,22,28]-VIP (human, bovine, porcine, rat)

PRODUCT DESCRIPTION

[Ala11,22,28]-VIP (human, bovine, porcine, rat) is a 30-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 ($\geq 95\%$ by HPLC) as a lyophilized powder for reconstitution in appropriate buffers.

PRODUCT SPECIFICATIONS

Catalog Number	BPT1178
Molecular Weight	3160.6419 Da
Molecular Formula	C139H231N43O39S1
Purity	Peak Area by HPLC $\geq 95\%$
Form	Lyophilized
Source	Synthetic (Chemical Synthesis, SPPS)
Endotoxin	N/A (Synthetic peptide)

AMINO ACID SEQUENCE

One-Letter Code:

HSDAVFTDNYARLRKQMAVKKALNSILA-NH2

Three-Letter Code:

H-His-Ser-Asp-Ala-Val-Phe-Thr-Asp-Asn-Tyr-Ala-Arg-Leu-Arg-Lys-Gln-Met-Ala-Val-Lys-Lys-Ala-Leu-Asn-Ser-Ile-Leu-Ala-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