

Val-Asp-(Arg8)-Vasopressin

PRODUCT DESCRIPTION

Val-Asp-(Arg8)-Vasopressin is a 34-amino-acid A peptide related to the vasopressin (antidiuretic hormone, ADH) family, a cyclic nonapeptide that regulates water reabsorption, vascular tone, and social behavior through V1a, V1b, and V2 receptors. Used in renal, cardiovascular, and behavioral neuroscience research for studying fluid balance, vasoconstriction, and the neurochemistry of social cognition.

PRODUCT SPECIFICATIONS

Catalog Number	BPT1888
CAS Number	100930-18-5
Molecular Weight	1298.4469 Da
Molecular Formula	C55H79N17O16S2
Purity	Peak Area by HPLC >=95%
Form	Lyophilized
Source	Synthetic (Chemical Synthesis, SPPS)
Endotoxin	N/A (Synthetic peptide)

AMINO ACID SEQUENCE

One-Letter Code:

VDCYFQNCPRG-NH2(Disulfidebridge:Cys3-Cys8)

Three-Letter Code:

H-Val-Asp-Cys-Tyr-Phe-Gln-Asn-Cys-Pro-Arg-Gly-NH2(Disulfidebridge:Cys3-Cys8)

RESEARCH APPLICATIONS

Application	Receptor binding
Biomarker Target	Vasopressin Receptors (V1a/V1b/V2)
Research Area	Cardiovascular
Sub-category	Vasopressin & Fluid Homeostasis

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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Usage

Research use

QUALITY CONTROL

Purity Method

HPLC, Mass Spectrometry (MS)

Identity

Confirmed by ESI-MS or MALDI-TOF

Purity

Peak Area by HPLC $\geq 95\%$

Documentation

Certificate of Analysis (CoA) available upon request