

8-L-arginine-desmopressin;D

PRODUCT DESCRIPTION

8-L-arginine-desmopressin;D 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	BPT2595
Molecular Weight	1069.2144 Da
Molecular Formula	C46H64N14O12S2
Purity	Peak Area by HPLC >=95%
Form	Lyophilized
Source	Synthetic (Chemical Synthesis, SPPS)
Endotoxin	N/A (Synthetic peptide)

AMINO ACID SEQUENCE

One-Letter Code:

{Mpa}YFQNCPRG-NH2(Disulfidebridge:{Mpa}1-Cys6)

Three-Letter Code:

H-{Mpa}-Tyr-Phe-Gln-Asn-Cys-Pro-Arg-Gly-NH2(Disulfidebridge:{Mpa}1-Cys6)

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
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