

[D-Ala2,Hyp4,Tyr5]- b-Casomorphin (1-5) amide

PRODUCT DESCRIPTION

[D-Ala2,Hyp4,Tyr5]- b-Casomorphin (1-5) amide is a 9-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	BPT2501
Molecular Weight	674.7417 Da
Molecular Formula	C35H42N6O8
Purity	Peak Area by HPLC >=95%
Form	Lyophilized
Source	Synthetic (Chemical Synthesis, SPPS)
Endotoxin	N/A (Synthetic peptide)

AMINO ACID SEQUENCE

One-Letter Code:

YaF{Hyp}Y-NH2

Three-Letter Code:

H-Tyr-{D-Ala}-Phe-{Hyp}-Tyr-NH2

RESEARCH APPLICATIONS

Application	Bioactive food peptide
Biomarker Target	Food-derived Bioactive
Research Area	Nutrition
Sub-category	Food-derived Bioactive Peptides

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