

Collagen Type II Fragment/(Ala^{2??},Hyp^{2?1},Asn^{2?3})-Collagen Type II (245-270)

PRODUCT DESCRIPTION

Collagen Type II Fragment/(Ala^{2??},Hyp^{2?1},Asn^{2?3})-Collagen Type II (245-270) is a 28-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	BPT0048
CAS Number	144703-90-2
Molecular Weight	2488.701 Da
Molecular Formula	C106H174N32O37
Purity	Peak Area by HPLC >=95%
Form	Lyophilized
Source	Synthetic (Chemical Synthesis, SPPS)
Endotoxin	N/A (Synthetic peptide)

AMINO ACID SEQUENCE

One-Letter Code:

PTGPLGPKGQTGELGA{Hyp}GNKGEGGPK

Three-Letter Code:

H-Pro-Thr-Gly-Pro-Leu-Gly-Pro-Lys-Gly-Gln-Thr-Gly-Glu-Leu-Gly-Ala-{Hyp}-Gly-Asn-Lys-Gly-Glu-Gln-Gly-Pro-Lys-OH

RESEARCH APPLICATIONS

Application	Biological activity
Biomarker Target	Peptide Target
Research Area	Biomedical Research
Sub-category	Research Peptides & Tools

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