

AK-3-CU / AHK-Cu

PRODUCT DESCRIPTION

AHK-Cu (Copper Tripeptide-3) is a copper-binding peptide analog of GHK-Cu optimized for hair follicle cells. Stimulates dermal papilla cells, promotes follicle elongation, increases DPC proliferation, protects against apoptosis, and prolongs anagen phase via VEGF upregulation and TGF-beta1 downregulation.

PRODUCT SPECIFICATIONS

Catalog Number	BPT2911
CAS Number	682809-81-0
Molecular Weight	~415-417 Da
Purity	Peak Area by HPLC >=95%
Form	Lyophilized
Source	Synthetic (Chemical Synthesis, SPPS)
Endotoxin	N/A (Synthetic peptide)

AMINO ACID SEQUENCE

One-Letter Code:

Ala-His-Lys·Cu²⁺

RESEARCH APPLICATIONS

Application	Tissue repair
Biomarker Target	Growth Factors
Research Area	Dermatology
Sub-category	Wound Healing & Tissue Regeneration

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)
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Identity	Confirmed by ESI-MS or MALDI-TOF
Purity	Peak Area by HPLC >=95%
Documentation	Certificate of Analysis (CoA) available upon request