PRODUCT SPECIFICATION

GHK-Cu 50 mg

Glycyl-L-histidyl-L-lysine copper(II) — naturally occurring copper tripeptide complex, supplied as a lyophilized research compound.

CAS NUMBER (Cu COMPLEX)	MOLECULAR WEIGHT	PURITY	PHYSICAL FORM
89030-95-5	403.91 g/mol	≥ 99% (RP-HPLC)	Lyophilized powder

1 PRODUCT IDENTIFICATION

Product Name	GHK-Cu 50 mg
Product Code	PCR-GHKCU-50
Compound Type	Copper tripeptide — naturally occurring complex
Synonyms / Other Names	GHK-Cu; Copper Peptide GHK; Glycyl-L-histidyl-L-lysine copper(II)
Amino Acid Sequence	Gly-His-Lys (copper-chelating tripeptide)
Amino Acid Count	3
Vial Contents	50 mg lyophilized peptide, single vial
Product Category	Copper Peptides · Peptides for Skin

2 CHEMICAL AND PHYSICAL PROPERTIES

CAS Number	49557-75-7 (free peptide) | 89030-95-5 (Cu complex)
PubChem CID	342538 (free peptide) | 378611 (Cu complex)
Molecular Formula	$C_{14}H_{24}N_6O_4$ (free peptide) | $C_{14}H_{22}CuN_6O_4$ (Cu complex)
Molecular Weight	340.38 g/mol (free peptide) | 403.91 g/mol (Cu complex)
Appearance	Blue to blue-green powder (Cu complex)
Physical State	Lyophilized solid
Purity	≥ 99% by RP-HPLC

3 SOLUBILITY AND RECONSTITUTION

Solubility in Water	130.98 g/L
Compatible Buffers	Phosphate-buffered saline (PBS)
Recommended Diluent	Bacteriostatic water — supplied complimentary with every peptide order
Solution Handling	Prepare fresh, keep cold, and avoid repeated freeze-thaw cycles

RESEARCH USE ONLY — NOT FOR HUMAN OR VETERINARY USE. This document is not a Certificate of Analysis; batch-specific data is issued per lot.

4 STORAGE AND STABILITY

Storage — Sealed Vial	Freeze at ≤ −20 °C, sealed, away from light and moisture
Shelf Life — Sealed	Approximately 24 months under recommended storage conditions
Storage — After Reconstitution	Refrigerate at 2–8 °C
In-Use Period	28–30 days after reconstitution
Conditions to Avoid	Heat, direct light, moisture, and repeated freeze-thaw cycles

5 QUALITY ASSURANCE AND DOCUMENTATION

Analytical Method	Reverse-phase high-performance liquid chromatography (RP-HPLC)
Batch Testing	Independent third-party analysis for identity, purity, and contaminants
Certificate of Analysis	Issued per batch — available at peptidescostarica.net/lab-tests-coa-results/
Batch / Lot Number	Refer to the vial label and the accompanying Certificate of Analysis

Note: this specification sheet describes the product as supplied. Batch-specific analytical results are reported on the Certificate of Analysis for each lot.

6 INTENDED USE AND REGULATORY STATUS

Intended Use	Research Use Only (RUO) — laboratory, analytical, and scientific applications
Uses Advised Against	Not for human or veterinary use. Not a drug, food, cosmetic, dietary supplement, or household product. Not for diagnostic or therapeutic use.
Regulatory Status	Not approved or licensed by the U.S. FDA for the prevention, diagnosis, treatment, or cure of any disease
Distribution	Supplied within Costa Rica

SUPPLIER
Peptides Costa Rica
Curridabat, San José 11801
Costa Rica

CONTACT
info@peptidescostarica.net
CR +506 8404-6973
US +1 (831) 471-5559

DOCUMENTATION
peptidescostarica.net
COA database:
/lab-tests-coa-results/

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