OLYMPUS PEPTIDE

GHK-Cu

(Glycyl-L-Histidyl-L-Lysine Copper)

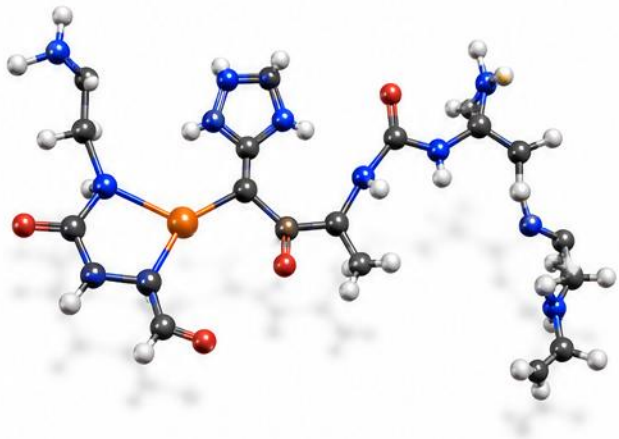
TECHNICAL INFORMATION SHEET

RESEARCH USE ONLY

PRODUCT NAME	GHK-Cu (Glycyl-L-Histidyl-L-Lysine Copper)
SYNONYMS	GHK-Cu; Gly-His-Lys Copper; GHK-Cu Tripeptide
CAS NUMBER	49557-75-7
PEPTIDE CLASS	Copper-binding tripeptide
PEPTIDE LENGTH	3 amino acids
APPEARANCE	Blue to blue-green lyophilized powder
SOLUBILITY	Soluble in Water for Injection (WFI), bacteriostatic water, or sterile saline
STORAGE (LYOPHILIZED)	2–8°C short-term; –20°C or below for long-term. Protect from light and moisture.
STORAGE (AFTER RECONSTITUTION)	2–8°C. Avoid repeated freeze–thaw cycles.
MOLECULAR WEIGHT	372.91 g/mol
MOLECULAR FORMULA	$C_{14}H_{24}N_6O_4Cu$

ILLUSTRATIVE 3-D MOLECULAR VISUALIZATION

Illustrative 3-D molecular visualization of GHK-Cu (Glycyl-L-Histidyl-L-Lysine Copper).



Carbon Hydrogen Nitrogen Oxygen Copper

Illustrative 3-D molecular visualization of the GHK-Cu structure.

The model represents the chemical structure based on the amino acid sequence.

PEPTIDE BACKBONE SEQUENCE (ONE-LETTER CODE)

Sequence (3 amino acids)	G H K

Gly-His-Lys (glycyl-L-histidyl-L-Lysine)

Note: This is the peptide backbone sequence (one-letter code).
No post-translational modifications are present in GHK-Cu.

COMPONENT SPECIFICATIONS

PARAMETER	SPECIFICATION
CAS Number	49557-75-7
Amino Acid Sequence (3 amino acids)	Gly-His-Lys
One-Letter Sequence	GHK
Molecular Formula	$C_{14}H_{24}N_6O_4Cu$
Molecular Weight	372.91 g/mol

MOLECULAR WEIGHT: 372.91 g/mol.
This value is the sum of the individual peptide molecular weights and is provided for reference only.
The compound is not a single chemical entity.

DESCRIPTION

GHK-Cu (Glycyl-L-Histidyl-L-Lysine Copper) is a naturally occurring copper-binding tripeptide originally found in human plasma, urine, and saliva.

GHK-Cu has been studied for its potential role in skin health, wound healing, collagen synthesis, tissue repair, and antioxidant activity.
This peptide is supplied as a lyophilized powder for research use only.

KEY CHARACTERISTICS

- Copper-binding tripeptide
- Naturally occurring in human plasma
- Supports collagen synthesis and tissue repair
- Associated with antioxidant and anti-inflammatory properties
- Supplied as a sterile lyophilized powder
- Highly water soluble
- Typically analyzed using HPLC and LC-MS
- Stable for long-term frozen storage when lyophilized

SCIENTIFIC NOTE

GHK-Cu is a research peptide and is not approved as a therapeutic drug by the FDA or Health Canada. All use is restricted to laboratory research.

The information provided is for reference purposes only and is not intended for human or veterinary use.