



GHK-Cu

Copper Peptide · Regenerative & Anti-Aging Compound

OVERVIEW

GHK-Cu (Glycyl-L-Histidyl-L-Lysine Copper Complex) is a naturally occurring tripeptide found in human plasma, saliva, and urine. Concentrations decline from ~200ng/mL at age 20 to ~80ng/mL by age 60. GHK-Cu activates over 4,000 human genes related to tissue remodeling, anti-aging, and anti-inflammatory processes — making it a cornerstone compound in aesthetic medicine and regenerative protocols worldwide.

SPECIFICATIONS

| | |
|-----------------------|---------------------------------------|
| Size | 100mg per vial |
| Reconstitution | Add 2ml BAC Water → 50,000mcg/ml |
| Route | Subcutaneous (SubQ) injection |
| Storage | Refrigerate 2–8°C; protect from light |

CLINICAL APPLICATIONS

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|-----------------------------------|--|
| ■ Collagen & elastin synthesis | ■ Wound healing & dermal repair |
| ■ Anti-inflammatory & antioxidant | ■ Hair follicle stimulation |
| ■ Skin tightening & remodeling | ■ Nerve regeneration & neuroprotection |

MECHANISM OF ACTION

GHK-Cu stimulates fibroblast proliferation and upregulates collagen, elastin, and decorin synthesis while suppressing TNF-alpha and IL-6. The copper ion facilitates superoxide dismutase (SOD) activity for antioxidant protection and clears damaged proteins via the ubiquitin-proteasome system across skin and connective tissue cell types throughout the body.

RECONSTITUTION & DOSING GUIDE · SubQ Injection · U-100 Insulin Syringe

2ml BAC Water + 100mg vial = 50,000mcg/ml · U-100 syringe: 1 unit = 500mcg (highly concentrated — dose carefully)

| PHASE | DOSE | SYRINGE UNITS (U-100) | FREQUENCY |
|-----------------|----------------|-----------------------|------------|
| Starting | 1mg (1,000mcg) | 2 units | Once daily |
| Low | 2mg (2,000mcg) | 4 units | Once daily |
| Standard | 3mg (3,000mcg) | 6 units | Once daily |
| Max Dose | 5mg (5,000mcg) | 10 units | Once daily |