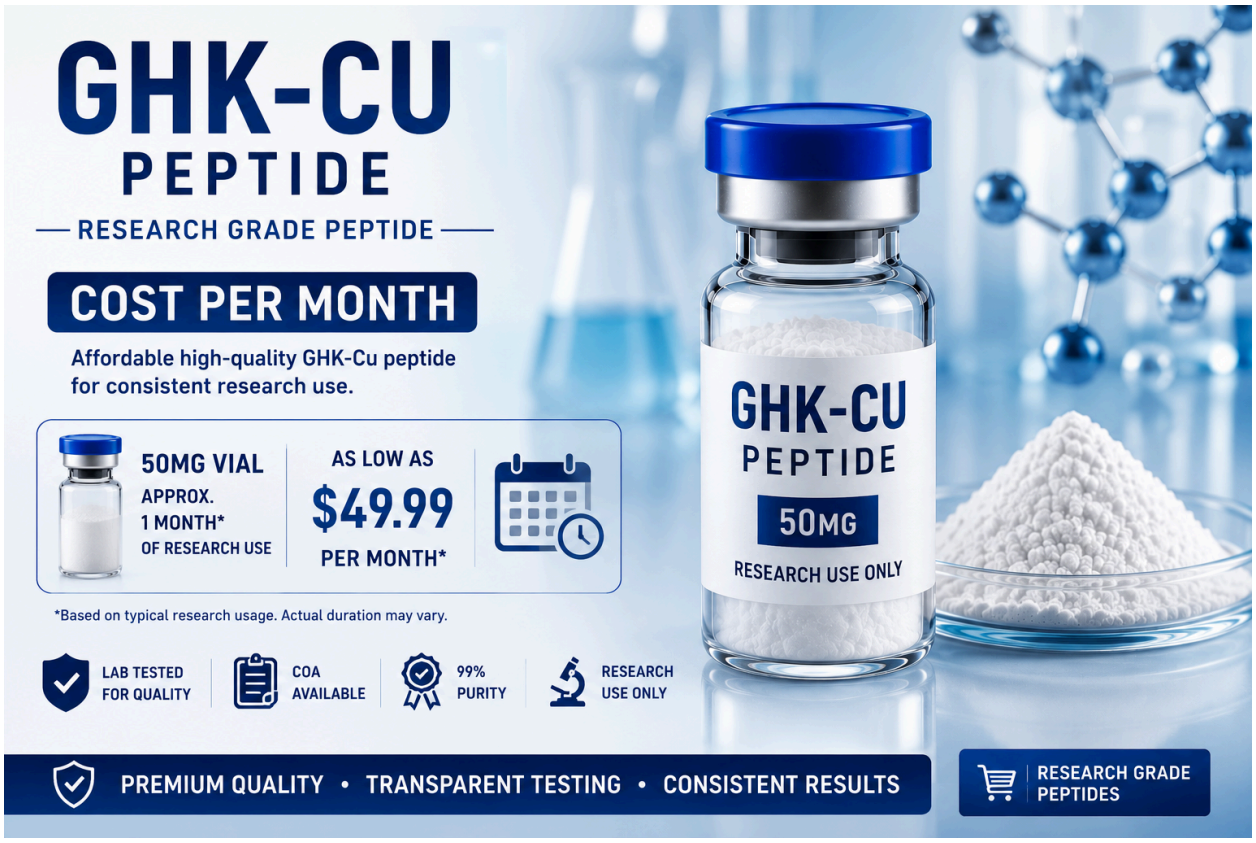
GHK-Cu Peptide Cost Per Month: 50mg Vial Price, COA & Research Standards

This guide takes a more transparent approach. Rather than providing broad estimates, we'll examine the factors that influence **GHK-Cu 50mg vial price**, discuss what contributes to **GHK-Cu peptide cost per month** for laboratory research, and explain why seemingly similar products can differ significantly in price. We'll also cover how analytical testing, verified purity, and batch-specific documentation affect the overall value of a research-grade peptide, helping laboratories make informed purchasing decisions instead of relying solely on the lowest advertised price.



This article takes a different approach entirely. We are going to answer the GHK-Cu 50mg vial price question with specific numbers — not ranges, not estimates, not "contact us for pricing." We will also address what drives GHK-Cu peptide cost per month for researchers running extended protocols, what GHK-Cu injection price searches are really asking about, and how GHK-Cu 99 purity at Ageless Vitality Peptides is independently confirmed rather than self-declared.

If you are planning a GHK-Cu research program and need to know exactly what you are spending and exactly what you are getting you are reading the right article.

What Is GHK-Cu and Why Do Research Budgets Keep Allocating to It?

Fifty Years of Sustained Preclinical Interest

GHK-Cu — Glycyl-L-Histidyl-L-Lysine Copper — is a naturally occurring copper-binding tripeptide that has maintained peer-reviewed scientific interest since the early 1970s. That longevity is the most honest endorsement any research compound can earn. Compounds that produce noise rather than signal do not sustain investigation for half a century across independent research groups.

The copper(II) ion in **GHK-Cu** is not incidental to the compound's properties — it is structurally central. Coordinated through the histidine imidazole nitrogen and the terminal amine groups of the tripeptide, the copper forms a stable chelate complex that behaves differently from copper-free GHK in every meaningful biological assay. This distinction is analytically verifiable through mass spectrometry — and it is one reason why a **GHK-Cu COA** that includes MS identity confirmation is categorically more informative than one that stops at HPLC purity alone.

The Research Evidence That Justifies the Budget Allocation

In cell culture and animal model studies, **GHK-Cu** has been consistently investigated across:

- **Wound repair and fibroblast biology** — dermal fibroblast activation, collagen I and III synthesis upregulation, TGF-β pathway modulation, and wound contraction acceleration in skin model systems
- **ECM remodeling** — MMP-2 and MMP-9 activity regulation, supporting tissue homeostasis in both fibrosis and repair research contexts
- **Hair follicle biology** — dermal papilla cell proliferation and follicle-supportive factor expression in organ culture conditions
- **Antioxidant enzyme pathways** — copper delivery supporting Cu/Zn superoxide dismutase activity, documented ROS reduction in treated cell systems
- **Anti-inflammatory gene regulation** — NF-κB pathway suppression, TNF-α downregulation in inflammatory cell models
- **Neuroprotective signaling** — BDNF pathway modulation, neuroinflammatory marker reduction, neurodegeneration-associated gene suppression in neural cell culture
- **Genomic-scale effects** — influence on several thousand human gene expression profiles across multiple cell types in genomic screening studies

Every finding above comes from preclinical research settings. **GHK-Cu** is not FDA-approved for any clinical application and is sold exclusively as a research chemical for laboratory use. Nothing here constitutes medical guidance.

GHK-Cu 50mg Vial Price Research Peptide 2026: The Numbers You Need

Exact Current Pricing at Ageless Vitality Peptides

The **GHK-Cu 50mg vial price research peptide 2026** at Ageless Vitality Peptides is:

$50.00 per 50mg lyophilized vial — currently on sale from the original price of $65.00.

No range. No "starting from." No "contact for quote." That is the number.

What that $50.00 includes without exception:

- **50mg of lyophilized GHK-Cu** — the copper-chelated tripeptide complex, not copper-free GHK
- **≥99% purity** confirmed by both independent HPLC and mass spectrometry
- **Batch-specific COA** published publicly in the COA Vault — accessible to any researcher before purchase, without creating an account
- **Research-use-only compliant labeling** per US regulatory requirements
- **Free domestic US shipping** on orders totaling over $150
- **Encrypted checkout** with fraud prevention — credit card, debit card, and Zelle accepted

For researchers who need a reconstitution vehicle, VitalPrep Sterile Solution is available at **$15.00** per vial (from $19.99) — purpose-built for lyophilized peptides including **GHK-Cu 50mg**, available through our VitalPrep category.

GHK-Cu Prices Across the Research Peptide Catalog

Context makes pricing more meaningful. Here is how the **GHK-Cu 50mg vial price** compares against other currently available compounds at Ageless Vitality Peptides:

Compound	Format	Current Price
GHK-Cu	50mg lyophilized	**$50.00** (from $65.00)
MOTS-c	10mg lyophilized	$69.00 (from $85.00)
Sermorelin	5mg lyophilized	$49.00 (from $61.00)
Thymosin Alpha 1	5mg lyophilized	$59.00 (from $89.00)
PT-141	10mg lyophilized	$59.00 (from $79.00)
Epithalon	10mg lyophilized	$49.00 (from current price)

IGF-1 LR3 1mg	1mg lyophilized	Current price on site
NAD+ 500mg	500mg	Current price on site
HCG 5000IU	5000IU lyophilized	Current price on site
Melanotan II 10mg	10mg lyophilized	Current price on site
AOD 9604	Lyophilized	Current price on site

Browse the complete research grade peptides for sale catalog for current pricing across the full range.

GHK-Cu Peptide Cost Per Month: Planning a Realistic Research Budget

Why "Cost Per Month" Is the Right Way to Think About GHK-Cu Budget

Researchers running anything beyond a single-session pilot need to think about **GHK-Cu peptide cost per month** rather than just per-vial cost. The per-vial figure is the starting point; how quickly that vial gets used depends on study-specific variables that no vendor can estimate for you.

The variables that determine monthly GHK-Cu consumption:

Number of subjects. An in vitro study with six treatment wells consumes a tiny fraction of what a 30-animal in vivo study requires per dosing interval. Scale is the primary driver of total monthly material need.

Dosing frequency. Daily administration protocols exhaust compound roughly seven times faster than weekly protocols. Protocols calling for twice-daily dosing are proportionally more demanding still. Every time a dosing frequency decision gets made, it directly shapes the monthly procurement budget.

Working concentration. Cell culture studies at 1 µM consume dramatically less compound than those running at 100 µM or above. For in vivo work, dose per kilogram bodyweight multiplied across subject count and dosing frequency gives the daily consumption figure that drives monthly projections.

Preparation format. Researchers aliquoting from a single reconstituted working stock consume material more efficiently than those preparing fresh reconstitutions repeatedly. Each reconstitution that goes partially unused represents a consumption overhead above the theoretical minimum.

Buffer for protocol losses. Standard research practice involves preparing slightly more material than the minimum calculation requires — both to account for reconstitution dead volume and to have a buffer against preparation errors. A 10–15% overhead above the theoretical minimum is a realistic planning assumption.

A Worked Planning Example

To make the **GHK-Cu peptide cost per month** concept concrete, consider a representative scenario:

In this design, working solutions at the highest concentration (100 µM) represent the greatest material draw. At a molecular weight of approximately 340 g/mol for the GHK-Cu complex, 100 µM across a multi-well plate format would consume on the order of low-microgram quantities per treatment — meaning a 50mg vial would support many hundreds of individual treatment applications at this concentration level.

In practical terms, a single **$50.00 GHK-Cu 50mg vial** would cover this entire 10-week study multiple times over — making the "monthly" cost for this type of protocol a fraction of the vial price rather than a recurring monthly expense.

In vivo protocols with larger cohorts at higher per-subject doses tell a different story — but the calculation method is the same: dose × subjects × frequency × weeks = total consumption, compared against the 50mg available in each vial.

The point is that **GHK-Cu peptide cost per month** is always study-design specific. Mapping the calculation against your specific protocol before ordering prevents both overspending and mid-study shortfalls.

GHK-Cu Injection Price: What Researchers Searching This Term Are Really Looking For

Understanding the "Injectable" Search Context

When researchers search for **GHK-Cu injection price** or **GHK-Cu injectable price**, they are typically asking one of two related questions:

Question one: What does GHK-Cu cost when it is prepared as a solution for subcutaneous or intraperitoneal administration in animal study models?

Question two: Is injectable-ready GHK-Cu available pre-formulated, or does the researcher need to reconstitute lyophilized peptide themselves?

The answer to both is the same: Ageless Vitality Peptides supplies **GHK-Cu 50mg** in lyophilized form — not pre-formulated as an injectable solution. This is not a limitation; it is the appropriate format for research-grade peptide supply.

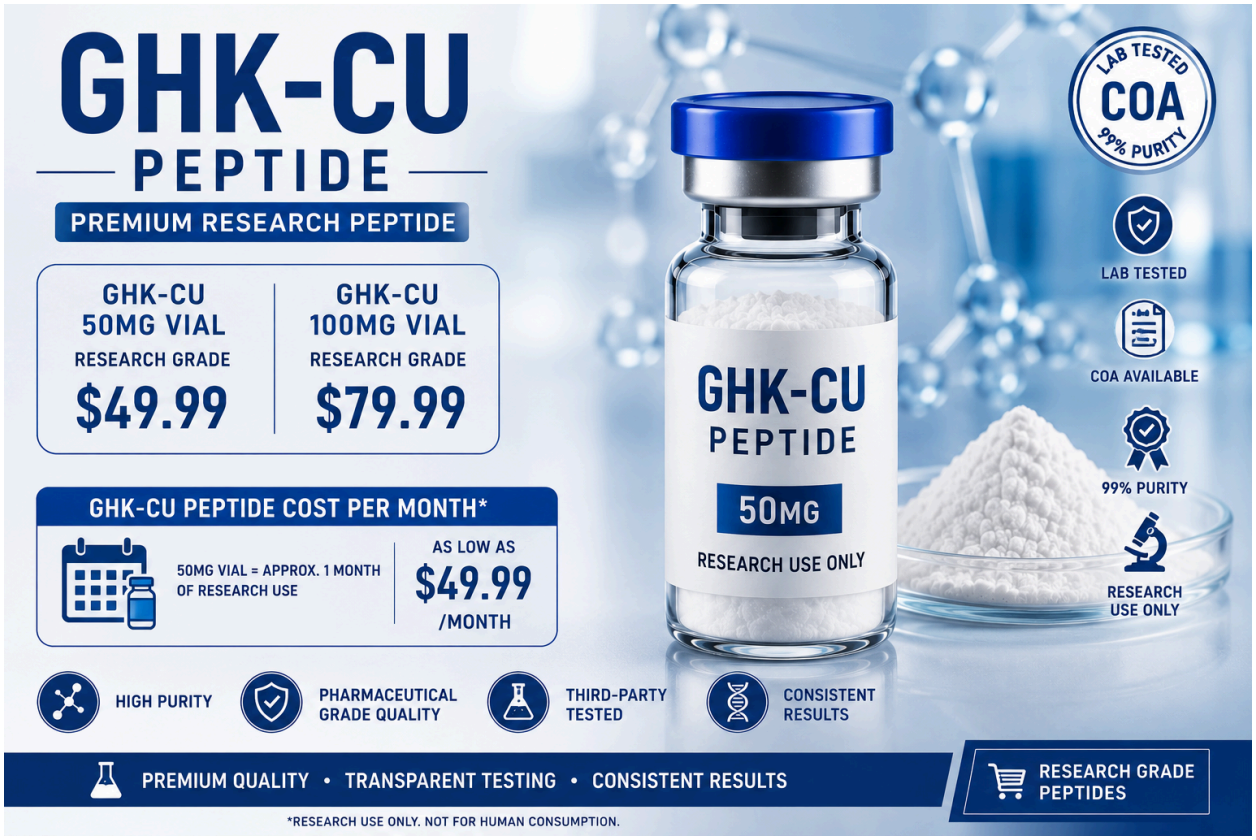
Pre-formulated injectable solutions introduce stability compromises from the moment of preparation. Lyophilized peptide, by contrast, remains stable at room temperature for 3–4 months and for months to years at -80°C in freeze-dried form. Researchers prepare their own working solutions immediately before use using bacteriostatic water or VitalPrep Sterile Solution — which is both more stable and more flexible than receiving a pre-made solution of unknown preparation date.

So the **GHK-Cu injection price** for researchers running subcutaneous or IP animal study protocols is simply the **GHK-Cu 50mg vial price** of $50.00, plus the cost of bacteriostatic water or VitalPrep ($15.00) for reconstitution. Total startup cost for a well-equipped GHK-Cu animal study: under $70 for the compound and preparation materials — before considering the free shipping on orders over $150.

GHK-Cu Medical Grade and Lab Tested: What the Terms Mean When They're Backed by Evidence

GHK-Cu Medical Grade: Substance vs. Slogan

GHK-Cu medical grade is a phrase that circulates in the research peptide market without a universally agreed definition. In regulated pharmaceutical contexts, "medical grade" implies cGMP manufacturing, batch-record traceability, validated analytical methods, and regulatory submission readiness. In the research chemical market, it is more often used aspirationally to communicate a quality aspiration rather than a specific manufacturing standard.



What matters more than the label is the evidence behind it. At Ageless Vitality Peptides, the evidence is specific:

- **≥99% purity by HPLC** — a numerical result, not a description
- **Mass spectrometry identity confirmation** — verifying the copper-chelated complex specifically
- **Independent third-party laboratory testing** — not in-house QC
- **Publicly accessible batch documentation** in the COA Vault

That combination of verified purity, independent testing, and transparent documentation represents the substantive core of what **GHK-Cu medical grade** quality implies — regardless of whether a vendor uses that specific phrase.

GHK-Cu Lab Tested: The Distinction That Actually Matters

GHK-Cu lab tested at Ageless Vitality Peptides means three specific things — not one vague claim:

First: Testing is performed by a named, independent third-party laboratory unaffiliated with our operation. The analyst has no commercial interest in the result.

Second: The testing covers both purity (HPLC) and identity (mass spectrometry). A vendor who only runs HPLC is leaving the identity of the copper-chelated complex unconfirmed. Both methods together establish that the compound in the vial is what the label says it is — at the purity level the label claims.

Third: The results are public before purchase. The complete analytical report chromatogram, MS data, purity percentage is in the COA Vault for any researcher to read. Not available on request, not provided post-purchase — publicly accessible before any transaction is initiated.

GHK-Cu COA: How to Read the Document Intelligently

The **GHK-Cu COA** (Certificate of Analysis) is the analytical record that ties a specific batch of compound to specific, independently verified quality data. Knowing how to read one takes five minutes and protects against a wide range of procurement mistakes.

Key fields to examine:

Lot or batch number — Must match the number on your vial. A mismatch means the document describes a different batch from the one you received.

Test date — Should be recent and tied to the current inventory cycle. A CoA from several years prior, with no retest information, cannot speak to the quality of what is in stock today.

HPLC purity — Look for a specific percentage, not a verbal description. "≥99%" is informative. "High purity" is not. Our GHK-Cu 50mg is confirmed at ≥99%.

Mass spectrometry data — The observed molecular weight should correspond to the GHK-Cu copper complex specifically. This confirms that what HPLC detected as the primary peak is the intended compound, not a co-eluting impurity.

Laboratory name — A named, external testing laboratory. In-house QC from the same organization selling the product does not provide independent verification.

All of these elements are present in the GHK-Cu documentation published in our COA Vault. The vault is public, requires no login, and contains the full analytical report including the HPLC chromatogram and MS output — not a summary, not a redacted version.

GHK-Cu 99 Purity: Why the Extra Margin Above 98% Is Worth Specifying

The Practical Research Significance of ≥99% vs. ≥98%

GHK-Cu 99 purity as verified at Ageless Vitality Peptides places the impurity load at ≤1% of total detected material. The commonly cited 98% industry standard allows up to 2% impurities.

That one-percentage-point difference has specific practical implications in certain research contexts:

High-sensitivity receptor assays. When testing compound effects on receptor systems with sub-micromolar affinities, a 2% impurity load at working concentration means a measurable impurity contribution to the assay readout. At ≥99% purity, that contribution is halved.

Cytotoxicity and cell viability assays. Impurities in copper-containing compounds can have confounding effects on cell viability independent of the intended copper-peptide complex activity. Higher purity reduces the risk of false positive cytotoxicity signals from non-compound material.

Multi-compound comparison studies. When GHK-Cu is being compared against other compounds in the same assay system, equal or near-equal purity across all compounds is important for fair comparison. The ≥99% standard provides this consistency when paired with comparably verified compounds from the same vendor.

Publication and institutional audit requirements. Some research institutions and funding bodies specify minimum purity standards for compounds used in grant-funded research. ≥99% purity with independent COA documentation satisfies stricter institutional standards than the 98% floor.

GHK-Cu purity at ≥99% is not a premium tier at Ageless Vitality Peptides. It is the standard that every batch is tested to — no exceptions, no lower-tier options.

Proper GHK-Cu Storage After Delivery: Protecting the Quality You Paid For

Our products are manufactured using lyophilization — a freeze-drying process that produces a stable crystalline white powder optimized for shipping and extended storage without refrigeration.

Before reconstitution — lyophilized GHK-Cu 50mg:

- **Room temperature** (cool, dark location, away from humidity and direct light): Stable for **3 to 4 months** — appropriate for active research programs with regular use
- **Refrigerated at 4°C (39°F)**: For short-term holding beyond the room-temperature window
- **Frozen at -80°C (-112°F)**: For long-term preservation spanning months to years — recommended for stock being held against future study cycles

After reconstitution:

Allow the sealed vial to reach room temperature before opening to prevent moisture condensation inside. Inject VitalPrep Sterile Solution or bacteriostatic water slowly down the inner vial wall — not directly onto the lyophilized cake. Swirl the vial gently to dissolve without vortexing or shaking, which can disrupt the copper-peptide coordination bond.

Once reconstituted:

- **Refrigerate at 4°C** and protect from light at all times
- **Use within 30 days** of reconstitution
- Aliquot into single-use volumes wherever practical to minimize degradation from repeated freeze-thaw cycling

GHK-Cu in the Broader Research Context at Ageless Vitality Peptides

Research programs centered on **GHK-Cu** regularly incorporate complementary compounds from the research grade peptides for sale catalog at Ageless Vitality Peptides:

Metabolic and longevity companions: MOTS-c ($69.00 from $85.00) operates through mitochondrial-to-nuclear retrograde signaling affecting metabolic gene transcription a mechanistically separate but frequently co-studied domain in aging biology research alongside GHK-Cu's ECM and antioxidant effects.

NAD+ 500mg supports coenzyme biology and sirtuin pathway activation, often studied alongside GHK-Cu in programs examining both intracellular energy metabolism and ECM integrity.

Tissue repair and growth factor research: IGF-1 LR3 1mg is studied for anabolic receptor signaling in muscle and connective tissue — complementary to GHK-Cu's collagen-stimulating effects in tissue repair research. Our IGF-1 LR3 before and after resource provides investigational context.

AOD 9604 targets adipose tissue lipolysis, relevant for researchers examining body composition biology alongside GHK-Cu's regenerative signaling.

Neural and cognitive research: Semax 10mg investigates BDNF modulation and neuroprotection — increasingly relevant as GHK-Cu research expands into neural biology. Full scientific background is available on our Semax peptide for research page and Semax peptide benefits article.

Secretagogue and hormonal research: Sermorelin 5mg ($49.00) and the CJC-1295 Ipamorelin combination are studied for pituitary GH secretion — frequently explored alongside regenerative peptides like GHK-Cu in programs examining age-related GH decline and tissue repair.

HCG 5000IU and Melanotan II 10mg complete the catalog for researchers in hormonal and melanocortin biology respectively.

Immune and longevity biology: Thymosin Alpha 1 5mg ($59.00 from $89.00) and Epithalon 10mg address immune modulation and telomere biology respectively — both relevant in multi-target longevity research alongside GHK-Cu.

Conclusion:

GHK-Cu 50mg vial price research peptide 2026 — $50.00. That is the number.

GHK-Cu peptide cost per month — determined by your study design, not a fixed figure. But for most laboratory-scale in vitro research, a single $50.00 vial covers multiple protocol cycles.

GHK-Cu injectable price — same as the vial price for researchers reconstituting their own working solutions, which is the appropriate format for research use.

GHK-Cu 99 purity — confirmed at ≥99% by independent HPLC and MS, documented in the public COA Vault, accessible before any purchase is made.

GHK-Cu lab tested — third-party verified, batch-specific, publicly published.

Everything you need to make a fully informed procurement decision is available right now at Ageless Vitality Peptides. Visit the GHK-Cu product page to order, or visit the COA Vault to review the documentation first.

Frequently Asked Questions

What is the GHK-Cu 50mg vial price in 2026?

The **GHK-Cu 50mg vial price research peptide 2026** at Ageless Vitality Peptides is **$50.00**, reduced from the original price of $65.00. This includes ≥99% purity confirmed by independent HPLC and MS, publicly accessible batch COA documentation, and free domestic US shipping on orders over $150.

How much does GHK-Cu peptide cost per month for research?

GHK-Cu peptide cost per month depends entirely on study design subject count, dosing frequency, working concentration, and protocol duration. For most in vitro laboratory studies, a single $50.00 vial supports an entire multi-week protocol. In vivo animal studies with larger cohorts and higher per-subject doses may consume more material; calculating total consumption against your specific protocol parameters before ordering is the most accurate way to project monthly cost.

What is the GHK-Cu injection price?

GHK-Cu injectable price queries reflect researchers preparing subcutaneous or intraperitoneal working solutions for animal studies. Ageless Vitality Peptides supplies lyophilized GHK-Cu 50mg at $50.00, which researchers reconstitute themselves using bacteriostatic water or VitalPrep Sterile Solution ($15.00). Total preparation cost under $70 for compound and reconstitution vehicle combined.

What do GHK-Cu prices typically reflect across different vendors?

GHK-Cu prices across vendors reflect real differences in synthesis quality, purification rigor, whether third-party testing occurred, and documentation standards. Prices significantly below $45–55 per 50mg from domestic US vendors with verified COA documentation typically signal reduced testing or purification investment.

What does GHK-Cu lab tested mean at Ageless Vitality Peptides?

GHK-Cu lab tested at Ageless Vitality Peptides means every batch is independently analyzed by a third-party laboratory using both HPLC purity measurement and mass spectrometry identity

confirmation. Results are published publicly in the COA Vault before purchase — no request required.

What is GHK-Cu medical grade quality?

GHK-Cu medical grade in research chemical contexts is most meaningfully defined by analytically verified quality: ≥99% purity by HPLC, copper-chelated complex confirmation by MS, independent third-party testing, and publicly accessible batch documentation. At Ageless Vitality Peptides, all four elements are present in every GHK-Cu batch.

Where can I find the GHK-Cu COA?

The **GHK-Cu COA** for Ageless Vitality Peptides is publicly available in the COA Vault — open to any researcher without login or purchase, with the full HPLC chromatogram and MS data included in the report.

What does GHK-Cu 99 purity mean analytically?

GHK-Cu 99 purity means that ≥99% of the detected material in independent HPLC analysis is the target GHK-Cu compound, with ≤1% representing process-related impurities or synthesis byproducts. This exceeds the standard 98% industry floor and provides additional analytical margin for sensitive cell-based assays and multi-compound comparison study designs.

Is GHK-Cu safe for human use?

GHK-Cu as sold by Ageless Vitality Peptides is a research chemical intended strictly for laboratory and preclinical use only. It is not approved by the FDA for human or veterinary therapeutic administration. All products are labeled "For Research Use Only" in compliance with applicable US regulatory requirements.