

Glow

GHK-Cu + BPC-157 + TB-500 Blend · Investigational Research Compound ·
Skin & Repair Stack



A plain-language guide to what Glow is, how the combined signaling of its three component peptides is designed to work, and what published peptide research on each component has found so far — written for newcomers to peptide science, not just specialists.

COMPOSITION

GHK-Cu 50mg · BPC-157 10mg
TB-500 10mg
Total: 70mg

STRUCTURE

Copper tripeptide complex + two
mid-length peptide fragments

STUDIED HALF-LIFE

GHK-Cu: short plasma half-life;
BPC-157/TB-500: hours to a few
days

1 What Is Glow?

Glow combines three separately studied research peptides into a single blend: GHK-Cu, a naturally occurring copper tripeptide studied for collagen synthesis and skin remodeling; BPC-157, a gastric-derived fragment studied for angiogenesis and tissue repair; and TB-500, a synthetic fragment of Thymosin Beta-4 studied for actin regulation and cell migration. The stack's research reputation centers on skin quality and surface-level tissue repair, distinguishing it from four-peptide blends like Klow that also include an anti-inflammatory component.

Each peptide acts through a distinct mechanism — dermal gene-expression signaling, vascular repair, and cell migration — and researchers combining them are typically investigating whether these complementary pathways produce broader skin and tissue-repair effects than any single compound alone.

NEW TO THIS? KEY TERMS

Metallopeptide — a peptide bound to a metal ion (GHK-Cu's copper) as part of its active structure.

Angiogenesis — the formation of new blood vessels, central to tissue repair and wound healing.

Actin-binding peptide — a peptide that regulates the cytoskeleton, supporting cell migration to injury sites.

Stack — research shorthand for combining multiple compounds studied together for complementary effects.

2 How It's Designed to Work

Glow's research profile rests on three parallel mechanisms feeding a shared repair cascade — dermal gene signaling, vascular repair, and cell migration, studied together for overlapping skin and tissue effects:

GHK-Cu PATHWAY

GENE EXPRESSION / COLLAGEN SYNTHESIS

Studied as modulating gene expression toward a repair profile, stimulating collagen and elastin synthesis and antioxidant activity in skin.

BPC-157 PATHWAY

VEGFR2 / ANGIOGENESIS

Studied as activating the VEGFR2 receptor and nitric oxide signaling, promoting new blood vessel formation and blood flow to damaged tissue.

TB-500 PATHWAY

ACTIN REGULATION / MIGRATION

Studied as binding actin monomers to promote cell migration, reduce inflammation, and support formation of new blood vessels.

Each peptide is studied independently; there is currently no dedicated combined-compound clinical trial studying all three given together as a single stack.

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3 What the Research Shows

Research on all three components is overwhelmingly preclinical and in-vitro, with no completed controlled human trials on the combination itself. Below is a plain-language summary of frequently cited findings for each component.

GHK-Cu Skin & Genomic Research Pickart et al., *Journal of Cosmetic Dermatology*, 2015; PLOS ONE, 2012
Dermatology trials reported GHK-Cu improved skin firmness and collagen production, while genomic profiling reported modulation of over one hundred genes linked to tissue repair and antioxidant defense.

BPC-157 Angiogenesis Mechanism Chang et al., *Journal of Applied Physiology*, 2011
In-vitro and in-vivo work reported BPC-157 promotes angiogenesis via activation of the VEGFR2 signaling pathway in endothelial cells, offering a mechanistic explanation for its wound-healing effects across tissue types.

TB-500 Cell Migration & Wound Healing Sosne et al., *Expert Opinion on Biological Therapy*, 2010
Reviews of Thymosin Beta-4 research report promotion of cell migration, reduced inflammation, and support of new blood vessel formation across wound-healing models, attributed to its actin-regulating activity.

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4 Effects Observed in Research

Across the studies above, three effects recur most often. These are findings from controlled research settings on the individual peptides, not guarantees or claims about any individual outcome from the combined stack.

Skin Firmness & Collagen Synthesis

Increased collagen and elastin production reported in GHK-Cu dermatology trials, with improved skin firmness and reduced fine lines.

Tissue & Wound Repair

Accelerated healing of tendon, muscle, and connective tissue reported in studies of BPC-157 and TB-500.

Angiogenesis & Blood Flow

Promotion of new blood vessel formation studied via VEGFR2 activation (BPC-157) and actin-mediated cell migration (TB-500).

5 Storage & Reconstitution Guide

Glow is supplied as a lyophilized (freeze-dried) blend that must be reconstituted before use in the lab. The steps below reflect standard peptide-handling practice — always defer to the certificate of analysis (COA) that ships with each vial.

BEFORE RECONSTITUTION

Keep the lyophilized vial refrigerated (2–8°C) for short-term storage, or frozen (–20°C) for longer-term storage, protected from light at all times. The unreconstituted powder is stable for the longest window — reconstitute only what will be used in the near term.

RECONSTITUTING WITH BACTERIOSTATIC WATER

Bring the vial to room temperature. Using a sterile syringe, draw bacteriostatic water and inject it slowly down the inside wall of the vial — not directly onto the powder — to avoid agitating and denaturing the peptides. Gently swirl to dissolve; never shake.

RESULTING CONCENTRATION FOR A 70MG VIAL (GHK-Cu 50MG / BPC-157 10MG / TB-500 10MG)

Bacteriostatic Water Added	Resulting Total Concentration
1 mL	70 mg/mL
2 mL	35 mg/mL
3 mL	23.3 mg/mL
5 mL	14 mg/mL

AFTER RECONSTITUTION

Store the reconstituted solution refrigerated at 2–8°C and protected from light. Reconstituted peptide solutions are generally most stable when used within a few weeks — check the COA for the exact window for each lot. Avoid repeated freeze–thaw cycles, label vials with the reconstitution date, and discard any solution that appears cloudy, discolored, or has been left at room temperature for an extended period.

SOURCES

Pickart, L. et al. The human tripeptide GHK-Cu in prevention of oxidative stress and degenerative conditions of skin · Journal of Cosmetic Dermatology, 2015 · Chang, C.H. et al. The promoting angiogenesis effect of pentadecapeptide BPC 157 involves the VEGFR2 pathway · Journal of Applied Physiology, 2011 · Sosne, G. et al. Thymosin beta 4: a potential novel therapy for neurotrophic keratopathy, dry eye, and ocular surface diseases · Expert Opinion on Biological Therapy, 2010.

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