



GHK-Cu

INCI Name: Copper Tripeptide - 1

 **Active Peptide** Patented Technology: [CN113150066A](#)

The first cosmetic peptide widely used in high-end anti-wrinkle, skin repair & hair growth products

Why Buy Cosmetic Peptides From Active Peptide Company?

- We Are a Science-based American company recommended by world-renowned scientists and customers.



“If you want pure copper peptides, go to activepeptide.com.”

– Dr. Loren Pickart

*Inventor of GHK copper peptide,
Founder of Procyte and Skin Biology*

Copper peptide is the first cosmetic peptide widely used in high-end skin care product for its proven ability to repair daily skin damage, remove wrinkles, and delay signs of aging

Interview with Inventor of GHK Copper Peptide

Dr. Loren Pickart

[– Click to Watch the Video on YouTube](#)

 **Active Peptide** CEO Janet Du and Principal Scientist Dr. Gengli Yu visited Dr. Pickart in Seattle in 2021



Dr. Pickart shared interesting stories about how he discovered copper peptide and the breakthroughs that most surprised him

■ Patented Technology



Synthetic Method of Blue Copper Peptide

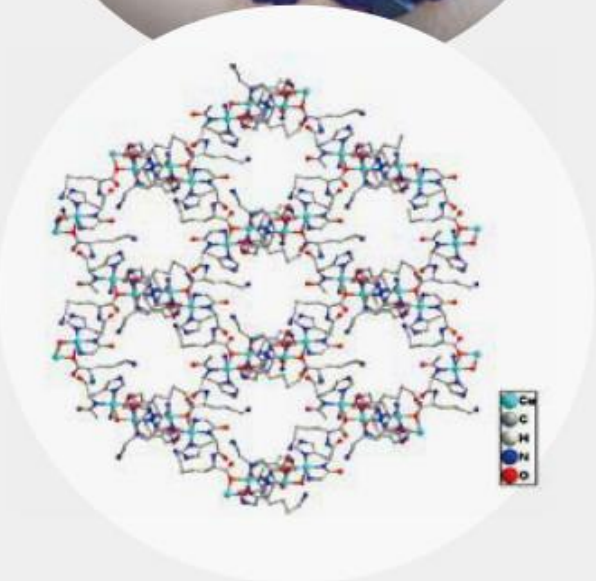
Patent Link:

[CN113150066A - Synthetic method of blue copper peptide](#)
[- Google Patents](#)

“We have made a significant breakthrough in kilogram-scale production of high purity peptides. Our unique liquid-phase synthesis technology has the shortest synthetic routes and avoids using any chromatographic purification, which allows us to produce kilograms of pure peptides in a single batch. This process is much faster, more cost-efficient, and eco-friendly.”

- Dr. Gengli Yu
Founder & Principal Scientist





In our lab, our unique patented technologies allow us to grow large, high-purity copper peptide crystals.



- High purity copper peptide crystal and its single crystal X-ray absorption spectroscopy
-

➤ Comparison Between Active Peptide and Other Brands

	Active Peptide Brand	Other Brands
Appearance	Crystal powder, blue, salt-like in consistency	Freeze-dried powder, blue, flour-like in consistency
Technology	No preparative HPLC and lyophilizer used; eco-friendly	Preparative HPLC and lyophilizer used; large solvent consumption
Stability	High	Low
Moisture absorption	No	Yes
Adhesion	Not sticky; good liquidity	Prone to stick on bottle wall
Storage	Easy to weigh and store	Difficult to weigh and store



■ Formulated solution

Solutions with Patented Formulas Created in GMP Environment

- Singular Peptide Solutions
- Combined Peptide Solutions



We have more than 20 singular peptide solutions and 10 patented combined peptide solutions.

Our solutions are created using the company's self-manufactured high purity peptide powder. All products are made in a GMP-standard sterilized area.

We also make custom solutions based on the customer's requirements for formula and concentration.

Active Peptide GHK-Cu Solution

Made from Self-manufactured Powder
Created in GMP Environment

- 1000ppm (0.1%) ~ 20000ppm (2%)
- Package: Plastic bottle; 1L or 5L
- Customized Package Available

20,000ppm

5,000ppm

1,000ppm



Serving the World's Most Reputable Customers

Johnson & Johnson



Skin Biology
LOREN PICKART PhD Products Based on Real Published Science

Vitabrid 



kdc



WINGNA



Global Customer Comments

N. Bauer,
Nyles7, CEO, USA



"I do appreciate your efforts and integrity. I'll likely get more in the near future."

N. Nivolo,
NCN Professional SkinCare, CEO, Connecticut , USA



"Thank you! LOVING the GHK-Cu, so glad I found you!"

F. Priet,
JFA Ceuticals, Researcher, India



"I love to talk to you guys. You are very professional and knowledgeable."

F. Jang,
Seoul National University, Scientist, Korea



"The package reached us so quickly."

G. Floyd,
Pôle Cosmétique, Purchasing Manager, France



"Thank you for your strong technical support and for working so hard to help us!"

R. Cloete
DRA Pharmaceuticals, South Africa



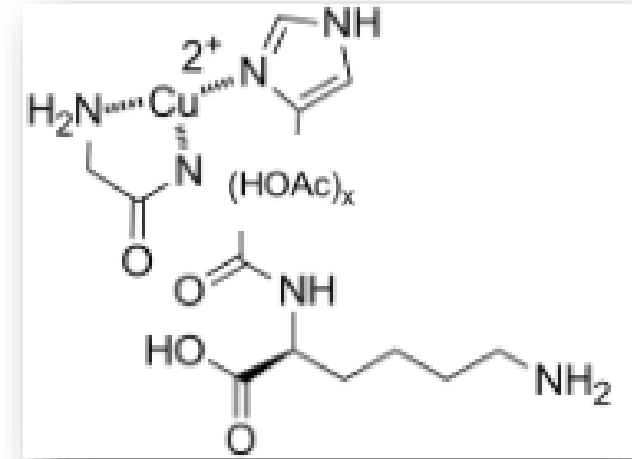
"Thank you for your excellent services. It was such a pleasure to do business with you!"

Our GHK-Cu Peptide Specifications

INCI Name Copper tripeptide-1

CAS 89030-95-5

Sequence Gly-His-Lys.Cu.xHAc



Specifications:

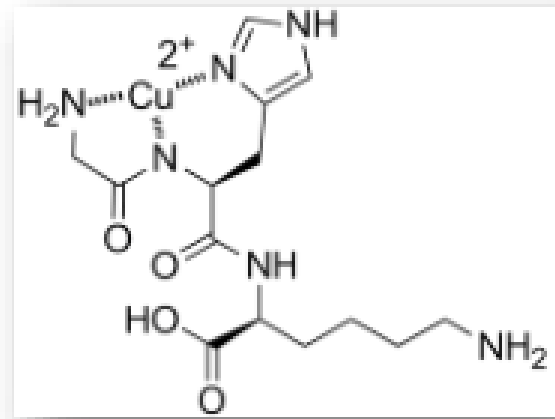
Appearance	<i>Blue Powder</i>
SKU No.	<i>AP103002</i>
Purity (by HPLC)	<i>> 98%</i>
Water (k.F)	<i>< 5%</i>
Molecular Formula	<i>C₁₄H₂₃CuN₆O₄</i>
Storage	<i>2 ~ 8°C, dry and dark place</i>
Package	<i>Plastic bottles or glass bottles of varied sized, or customized packages based on special requests</i>

This product is pure powder with purity >99%. No excipients, preservatives, anti-oxidants present, or used during the manufacturing process. It is 100% synthesized in laboratory so not involved with plant, vegetable, or marine. It is neither palm derived nor sustainably sourced.

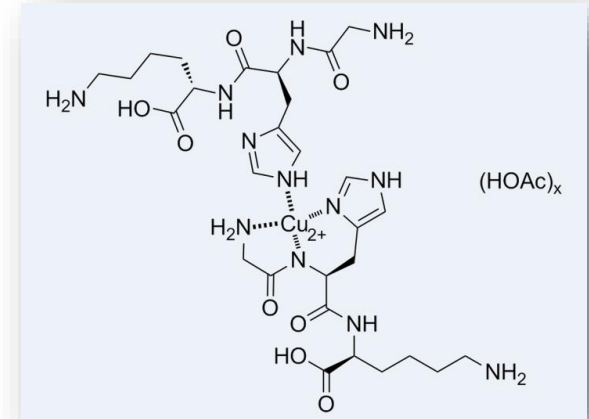
Our Tips for Formulation

1. Avoid strong oxidation ingredients
2. Avoid ingredients that can form a complex with Cu ion. For example, carnosine has a similar structure to GHK thus so it may compete with Copper ion and change the solution's color to purple. Another example is that EDTA sometimes is used in the formula to remove trace amount heavy metal ion. It may grab copper ion from GHK-Cu and change the solution's color to green.
3. GHK-Cu is water soluble (1g GHK-Cu can be easily solved in 5ml water). We suggest taking it as the final step to add GHK-Cu to the solution, which means adding all other ingredients (including preservatives) before adding GHK-Cu. Because too low or too high pH may cause a breakdown of GHK-Cu, and an acid base has more possibility of changing the solution's color, the pH should be adjusted close to 7 (neutral) before having GHK-Cu added in the final step. All process should be done under 40°C.
4. When color change happens, you may want to figure out the responsible ingredients (usually these ingredients are acid-based). Try to mix GHK-Cu with each ingredient and observe the reaction, then consider having the responsible ingredients removed or changed.

Comparison of GHK-Cu 1:1 and 2:1



1:1



2:1

1. GHK-Cu 1:1 is a single compound while 2:1 is a mixture of GHK and GHK-Cu 1:1.
2. Due to our advanced technology, GHK-Cu 1:1 can be purified by recrystallization. GHK-Cu 2:1, as a mixture, usually needs to be formed by Lyophilization method and additional mixing. It costs more to produce GHK-Cu 2:1.
3. GHK-Cu 1:1 has 14% of copper content. GHK-Cu 2:1 has 7% of copper content.
4. There is no article referring to functional differences between the two. Which GHK-Cu to use is usually based on customers' preference. "As long as GHK-Cu 1:1 is pure enough, their functions have no difference." --- Dr. Loren Pickart, inventor of GHK-Cu

GHK-Cu General Introduction

- GHK is a tripeptide possesses a high affinity for copper(II) ions, with which it spontaneously forms a complex (GHK-Cu).
- This peptide was first described as a growth factor for a variety of differentiated cells.
- GHK naturally occurs in human plasma, saliva, and urine. The plasma GHK level is about 200 ng/mL(10^{-7} M) at age 20, but declines to 80 ng/mL at age 60.

Mechanism

- Copper is delivered by copper peptides.
- Copper is essential to vital cellular and enzyme processes required for human health. It plays an important role in the enzyme systems which relate to tissue repair, hair growth and other biological responses.
- Copper is essential to Copper-dependent enzymes, including cytochrome C oxidase (energy production), superoxide dismutase(antioxidation) and lysyl oxidase (cross-linking of elastin and collagen).

GHK-Cu Functions and Applications

Function Summary

GHK-Cu exhibits a broad range of anti-aging, reparative, and protective actions. It can increase production of key skin proteins such as collagen as well as other important components of dermal matrix. GHK-Cu modulates the skin remodeling process, being able to stimulate both breakdown and synthesis of dermal matrix components. It repairs and remodels skin, anti-wrinkle, anti-aging, firm skin. It enlarges hair follicles and stimulating hair growth.

Applications:

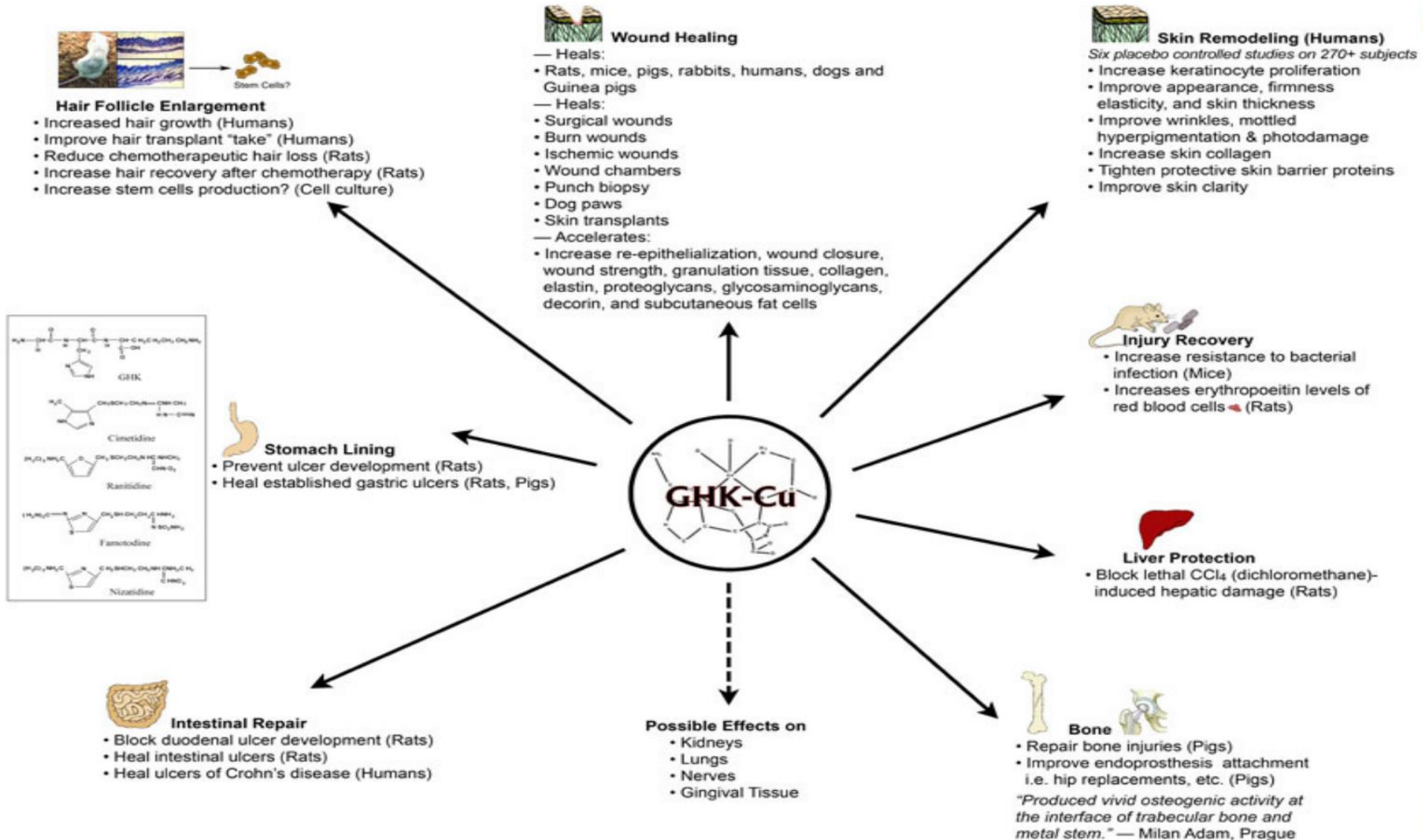
1. Slowing down aging, reducing wrinkles
2. Reducing inflammation and redness and other reparative formulations
3. Sun-protective formulations
4. Stimulation of Hair Growth

Recommended Dosage:

0.03-3%.

Click into <http://reverseskinaging.com/> to see how the GHK-Cu inventor Dr. Loren Pickart has been using GHK-Cu in his products

GHK-Cu Effect in Mammals



GHK-Cu for Skin Remodeling

Summary:

Skin Remodeling is the process that removes proteins and older cells from the skin to smooth skin, remove scars, lesions, and wrinkles. Skin remodeling is very active in young people but declines rapidly as human pass age 20. Increasing skin remodeling is the key to producing a biologically younger skin.

- 67 volunteers, GHK-Cu vs. placebo were applied twice daily for 12 weeks on facial skin.

Result: GHK-Cu Improved skin laxity, clarity and appearance, reduced fine lines, coarse wrinkles and mottled hyperpigmentation and increased skin density and thickness.

Reference: Leyden, J.J., Stevens, T., Finkey, M.B. and Barkovic, S. Skin care benefits of copper peptide containing eye creams. In: American Academy of Dermatology 60th Annual Meeting (Gaspari, A.A., Goldberg, L.H., Gupta, A.K. et al., ed.), pp. 29, American Academy of Dermatology, New Orleans, LA, USA (2002).

- GHK-Cu was tested in a 12-week placebo controlled study , on facial skin of 71 women with mild to advanced photodamage.

Result:

- At week 1, compared with placebo, the skin laxity, clarity, fine lines and overall appearance were improvement.
- At week 2, skin elasticity significantly improved and consistent with ultrasound increase in overall skin density and thickness.

Reference: Leyden, J.J., Stevens, T., Finkey, M.B. and Barkovic, S. Skin care benefits of copper peptide containing facial cream. In: American Academy of Dermatology 60th Annual Meeting (Gaspari, A.A., Goldberg, L.H., Gupta, A.K. et al., ed.), pp. 29, American Academy of Dermatology, New Orleans, LA, USA (2002).

GHK-Cu For Hair Growth

GHK-Cu increase hair growth by many ways:

1. Enlarging hair follicles and stimulating hair growth
2. Inhibit DHT expression
3. Improvement scalp damage and inflammation

How Copper Peptide Help Reduce Hair Thinning and Loss

Changes Associated with Thinning and Loss	SOLUTIONS
DHT accumulation	Copper ions are potent inhibitors of 5-Alpha Reductase
Follicle miniaturization	Copper peptides increase follicle size and this produces thicker hair.
The follicle's cycle shorten	Copper peptides increase follicle cell proliferation and decreases programmed cell death of follicles (apoptosis).
Inflammation	Copper peptides increase superoxide dismutase expression and reduce damage caused from interleukin-1, TGF-beta 1, and reactive carbonyl species.
Scalp damage	Copper peptides help repair scalp damage.
Hair grays with age	Copper peptides supply copper that tyrosinase needs to produce melanin.

<http://www.folligen.com/>

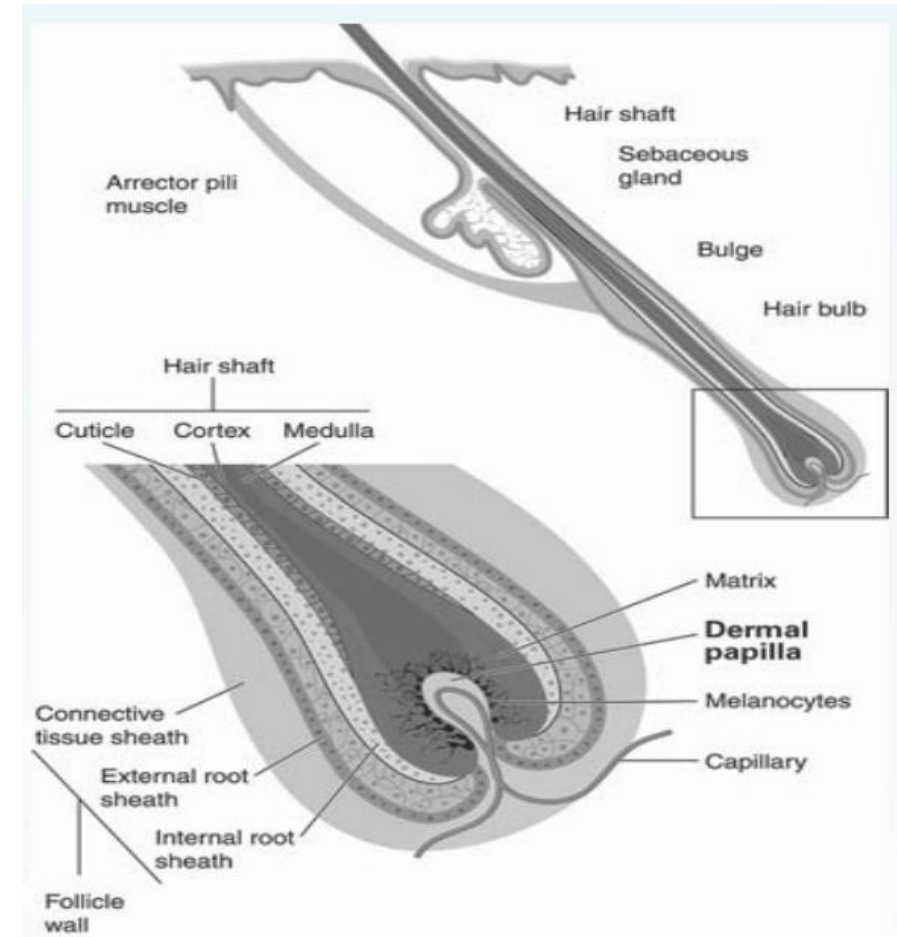
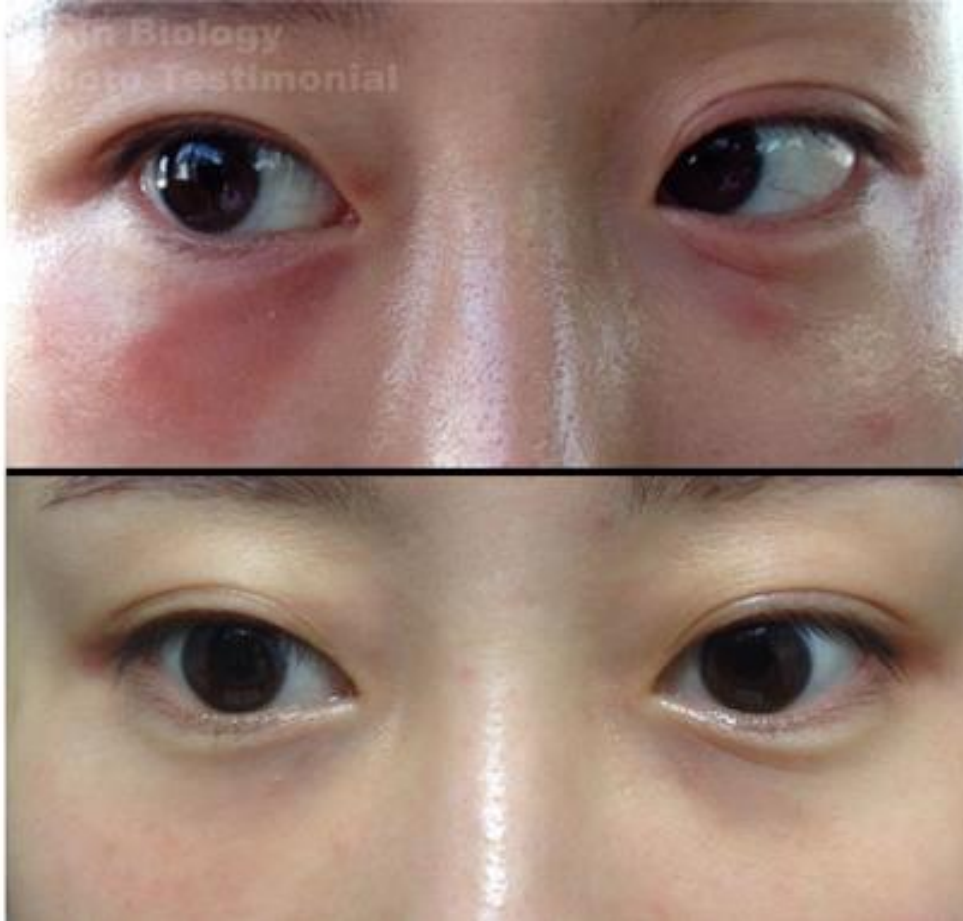


Photo Testimonials



3 weeks, before and after



3 weeks, before and after

*All pictures were submitted by users; for more photo testimonials, go to website www.skinbiology.com

Photo Testimonials



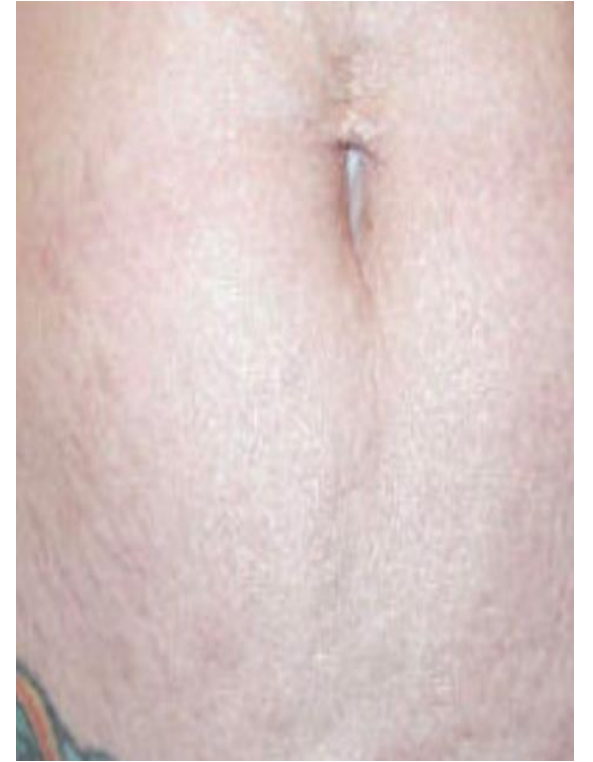
Day 1



Day 15



Day 30



Day 60

*All pictures were submitted by users; for more photo testimonials, go to www.skinbiology.com

Photo Testimonials



Day 1

Day 10

Day 18

*All pictures were submitted by users; for more photo testimonials, go to www.skinbiology.com

Active Peptide Company



- ❑ Established in 2013, Active Peptide Company is headquartered in Boston, USA. Its manufacturing center is located in the China National High-Tech Industrial Development Zone.
- ❑ We produce kilogram-scale batches of high purity peptides with patented technologies for cosmetic companies and distributors.
- ❑ We serve the world's most reputable customers in 28 countries and areas.

■ Peptides & Applications

A Wide Range of Cosmetic Peptides

- High Purity Powder
- Formulated Solution



Peptide Applications

HAIR & EYELASH GROWTH

- 👉👉 Biotinoyl Tripeptide-1
- 👉👉 Myristoyl Pentapeptide-17
- 👉👉 Hair Growth & Care Essential Peptide Solution
- 👉👉 Eyelash Promotor Peptide Solution

ANTI-WRINKLE & TIGHTENING

- 👉👉 Copper Tripeptide-1 (GHK-Cu)
- 👉👉 Tripeptide-1 (GHK)
- 👉👉 Tripeptide-29 (Collagen)
- 👉👉 Palmitoyl Tripeptide-1 (Pal-GHK)
- 👉👉 Palmitoyl Tetrapeptide-7 (Pal-GQPR)
- 👉👉 Palmitoyl Pentapeptide-4 (Pal-KTTKS)
- 👉👉 Hexapeptide-11
- 👉👉 Firmness & Elasticity Enhancing Peptide Solution
- 👉👉 Extensive Anti-Wrinkle Essential Peptide Solution

RAPID WRINKLE REPAIR

- 👉👉 SYN-AKE Substitute
- 👉👉 Acetyl Hexapeptide-8
- 👉👉 Acetyl Octapeptide-3
- 👉👉 Pentapeptide-18
- 👉👉 Instant Anti-Wrinkle Essential Peptide Solution

SKINCARE AROUND THE EYES

- 👉👉 Extensive Eye Care Peptide Solution

EYE BAG REDUCTION

- 👉👉 Dipeptide-2

BRIGHTENING & LIGHTENING

- 👉👉 Nonapeptide-1
- 👉👉 Whitening & Brightness Enhancing Peptide Solution
- 👉👉 Pigmentation, Acne, & Inflammation Reducing Peptide Solution

MUSCLE RELAXATION & SKIN COMFORT

- 👉👉 Acetyl Dipeptide-1 Cetyl Ester
- 👉👉 Sensitive Skin Anti-Wrinkle & Elasticity Enhancing Peptide Solution
- 👉👉 Sensitive Skin Anti-Inflammation Soothing Peptide Solution

PEPTIDE POWDER & SINGULAR PEPTIDE SOLUTIONS



INCI NAME	PURE POWDER	SOLUTION (ppm)	FUNCTION	DOSE
ANTI-WRINKLE & TIGHTENING				
Copper Tripeptide-1 (GHK-Cu)	Blue	20000	Efficiently repairs damaged skin by promoting the production of critical skin proteins such as collagen and dermal substrates; Reduces wrinkles, improves skin elasticity and firmness, increases skin thickness, and tightens skin; Reduces inflammation and relieves skin redness and swelling; Promotes hair growth	2.5-10%
Tripeptide-1 (GHK)	Off-white	20000	Used as activators for tissue remodeling; Slows down aging; Reduces wrinkles; Reduces inflammation and redness; Lip fullness and moisturizing	2.5-10%
Tripeptide-29 (Collagen)	Off-white	1000	Enhances cell activity of fibroblasts; Enhances skin elasticity, reduces fine lines, promotes skin firming	5%
Palmitoyl Tripeptide-1	Off-white	100	Stimulates collagen and supplements the skin matrix, thereby reducing wrinkles and tightening the skin; Improves skin hydration	3-8%
Palmitoyl Tripeptide-5*	Off-white	1000	Imitates natural production of collagen through TGF-β (transformation growth factor-beta) to stimulate the production of collagen, protects collagen from degradation; Promotes skin cell growth, inhibits oxygen free radicals and hydroxyl radicals; Increases the generation of elastin, hyaluronic acid, sugar amine oligosaccharide and fibronectin	3%
Palmitoyl Tetrapeptide-7	Off-white	50	Reduces skin inflammation and the accompanying skin damage; Stimulates the regeneration of collagen fibers in the dermis by acting as a cellular messenger; Mainly used in anti-aging products for its ability to lighten skin and improve skin elasticity	3-8%
Palmitoyl Pentapeptide-4	Off-white	100	Achieves significant anti-wrinkle effects by repairing the matrix and epidermis-dermis junction; Stimulates the expression of wound healing genes; Stimulates skin fibroblasts to reconstruct extracellular matrix; Stimulates synthesis of collagen I and IV, and fiber cell proteins	3-8%
Hexapeptide-11	Off-white	2000	Effectively enhances skin firmness and elasticity; Stimulates the production of collagen, reduces fine lines and wrinkles; Brightens the complexion; Fights signs of aging and increases water retention capacity	3-5%

INCI NAME	PURE POWDER	SOLUTION (ppm)	FUNCTION	DOSE
RAPID WRINKLE REPAIR				
SYN-AKE Substitute	Off-white	2500	A new chemical with a similar structure to SYN-AKE that operates on the same mechanism. It prevents the muscles' uptake of sodium by working on the mnAChR receptor, thus inhibiting the transmission of nerve impulses to the muscles, causing the muscles to stay relaxed. Effectively improves skin texture and replenishes lost collagen; Rapidly removes wrinkles, especially around the forehead and eyes	4%
Acetyl Hexapeptide-8	Off-white	1000	Known as the famous "Botox-like" peptide that immediately removes wrinkles: muscles are contracted when they receive neurotransmitters from vesicles. The product competes with the natural protein for a position in the SNARE complex, inhibiting vesicles from releasing neurotransmitters. Therefore muscle contraction is attenuated, preventing the formation of lines and wrinkles; The product can also stimulate the production of collagen and promote hydrating abilities	2-5%
Acetyl Octapeptide-3	Off-white	1000	Has a similar mechanism to the popular acetyl hexapeptide-8. Reduces muscle contractions which results in a more relaxed and line-free face, especially around the forehead and eyes; Repairs wrinkles and scars; Promotes the generation of elastin and collagen for smoother and younger skin	3-8%
Pentapeptide-18	Off-white	500	Reduces the depth of wrinkles on the face caused by the contraction of muscles from facial expressions, especially around the forehead and eyes; Decreases muscle contractions by inhibiting signaling at the neuromuscular synapse (the connection between the nerves and muscles); Works well with acetyl hexapeptide-8 to increase beneficial results	3-10%
MUSCLE RELAXATION & SKIN COMFORT				
Acetyl Dipeptide-1 Cetyl Ester	Off-white	3000	Stimulates the release of the endorphins, relaxing the skin; Decreases discomfort of the skin and relieves skin tension by increasing the skin's tolerance to internal and external stimulation; Promotes the formation of elastic fibers to improve the toughness of the skin	10%
Palmitoyl Tripeptide-8*	Off-white	350	Reduces the release of inflammatory cytokines; Prevents and reverses nerve inflammation to reduce skin erythema; Restores normal skin sensitivity thresholds	1-2.5%

INCI NAME	PURE POWDER	SOLUTION (ppm)	FUNCTION	DOSE
BRIGHTENING & LIGHTENING				
Nonapeptide-1	Off-white	100/500	Safely and efficiently inhibits the formation of melanin: competes with MSH (Melanocyte-Stimulating hormone) by binding with MC1-R receptors, making MSH unable to activate tyrosinase and form melanin, thereby preventing and reducing pigmentation; Enables better control of skin tone and brown spots; Stops the excessive production of melanin	4-8%
Tetrapeptide-30	Off-white	1600	Skin brightening, anti-UV; Interrupt the pathways that lead to the appearance of discoloration and uneven skin tone; Calms the skin and helps revitalize a dull skin tone; Anti-inflammatory activity; inhibits the formation of melanin by inhibiting the activity of tyrosine enzymes	0.5-5%
HAIR & EYELASH GROWTH				
Biotinoyl Tripeptide-1	Off-white	300	Stimulates the metabolism of hair follicle cells, thus stimulating hair growth; Delays hair follicle aging, improves hair follicle structure, and prevents hair loss; Activates tissue repair gene expression, improves the reconstruction and repair of skin, and promotes cell proliferation and differentiation	2%
Acetyl Tetrapeptide-3*	Off-white	1000	Promotes tissue regeneration; Stimulates the dermal papilla extracellular matrix proteins, directly affecting the structures surrounding hair follicles; Anchors hair to the scalp to strengthen strands and targets the causes of hair loss	5%
Myristoyl Pentapeptide-17	Off-white	1000	Significantly grows the eyelashes by activating the keratin gene to promote the production of keratin, the important structural protein in hair; Nourishes eyelashes with its antioxidant effect	3-8%
EYE BAG REDUCTION				
Dipeptide-2	Off-white	1000	Removes eye bags and dark circles: as an effective angiotensin-converting enzyme (ACE) inhibitor, it can improve blood circulation by inhibiting the conversion of angiotensin I to angiotensin II; Anti-wrinkle effect through promoting the synthesis of skin proteins	3%
Acetyl Tetrapeptide-5*	Off-white	1000	Reduces undereye puffiness due to fluid accumulation by improving blood circulation, inhibiting angiotensin converting enzymes, and inhibiting water leakage from blood vessels into tissues; Inhibits the collagen glycation that weakens the skin's supportive elements and causes wrinkles and loss of firmness; Improves the skin's smoothness and elasticity	1-10%

*Patent Restriction in Some Countries

COMBINED PEPTIDE SOLUTIONS WITH PATENTED FORMULAS

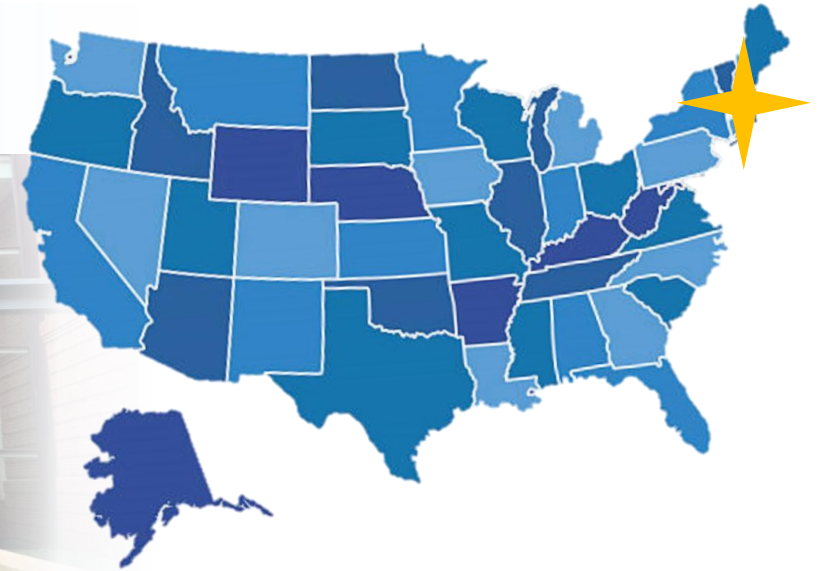
PRODUCT NAME	FUNCTION	MECHANISM	DOSE
ANTI-WRINKLE & ANTI-AGING			
Instant Anti-Wrinkle Essential Peptide Solution	Instantly removes expression lines and fine lines. Continuous use can effectively prevent the appearance of wrinkles. Improves deep wrinkles and makes skin smooth and soft	Two neurotransmitter peptides work together to block signal transmission from nerves to muscles, inhibiting surface muscle contraction and instantly eliminating facial lines caused by expressions; at the same time, elastin peptides quickly repair fine lines and improve skin moisture. Long-term use can reduce expression wrinkles, improve skin texture, and replenish collagen	3-10%
Firmness & Elasticity Enhancing Peptide Solution	Improves skin elasticity, firmness, and skin tone. Replenishes collagen to prevent the appearance of wrinkles. Is an antioxidant, eliminates free radicals and toxins, maintains and restores youthful skin. Long-term use can remove fine lines, expression lines, and deep wrinkles	Three peptides work together to remove various wrinkles caused by collagen loss and excessive muscle contraction. The first peptide promotes the synthesis of elastin and collagen by fibroblasts, and improves skin elasticity and firmness; the second is an anti-oxidant that removes free radicals and harmful substances, brightens skin, and prevents new wrinkles. The third inhibits the release of neurotransmitters from neurons to muscles, reducing expression lines caused by surface muscle contraction	3-10%
Extensive Anti-Wrinkle Essential Peptide Solution	Rejuvenates skin, repairs damaged cells, and restores cell vitality. Promotes collagen regeneration, removes expression lines and stubborn wrinkles, and prevents new wrinkles from appearing. Makes skin more firm, thick, and smooth, and balances skin tone	Four peptides powerfully remove wrinkles and tighten the skin. The anti-aging repair tripeptide promotes collagen fiber regeneration, increases skin thickness, improves epidermal cell youthfulness, and repairs damaged cells; the anti-aging pentapeptide repairs the junction of epidermis and dermis, stimulates skin fibroblasts to rebuild extracellular matrix, and stimulates the synthesis of collagen I and IV, fibroblast protein, and mucopolysaccharide; the elasticity-promoting tetrapeptide promotes the production of collagen and elastin, increasing skin elasticity and improving skin texture; the neurotransmitter inhibitory peptide blocks the nerves that transmit signals to muscles and inhibits surface muscle contraction	3-10%
SKINCARE AROUND THE EYES			
Extensive Eye Care Peptide Solution	Removes crow's feet and wrinkles around the eyes, reduces edema, removes eye bags, improves skin elasticity and firmness, and repairs aging and damaged skin around the eyes	Four peptides work together to promote eye skin care. One peptide improves lymphatic circulation, inhibits angiotensin-converting enzyme, and eliminates eye bags and edema; the second peptide blocks nerves' signal transmission to muscles, inhibiting surface muscle contraction and instantly eliminating expression lines; the third peptide effectively improves skin texture, prevents the loss of elastin and collagen, and reduces fine lines around the eyes; the fourth peptide strongly repairs damaged and aging skin cells, and increases the thickness of the skin around the eyes	3-10%

PRODUCT NAME	FUNCTION	MECHANISM	DOSE
BRIGHTENING & LIGHTENING			
Whitening & Brightness Enhancing Peptide Solution	Significantly reduces pigmentation, balances skin tone, and improves skin brightness	Tyrosine and tyrosinase undergo a series of reactions to form melanin. This formula contains two major ingredients targeting different interaction sites of melanin formation. The interaction process is reversible rather than destructive, safely and efficiently inhibiting the formation of melanin. Specifically, the major peptide ingredient competes with MSH (Melanocyte-Stimulating hormone) by binding with MC1-R receptors, making MSH unable to activate tyrosinase and form melanin. The second ingredient mimics the structure of tyrosine to deceptively bind with tyrosinase, which inhibits the activation of tyrosinase and further cuts off the path of melanin formation	3-10%
Pigmentation, Acne,& Inflammation Reducing Peptide Solution	Fights against abnormal pigmentation such as chloasma, freckles, age spots, and black spots; removes acne, reduces inflammation and regulates sebaceous glands; balances skin tone	This formula selectively enters overly active melanocytes to reduce abnormal pigmentation. The major ingredient efficiently reduces acne, improves skin elasticity, regulates sebaceous glands, and reduces oil secretion. The other peptide ingredient competes with MSH (melanocyte-stimulating hormone) and reduces tyrosinase activity to efficiently inhibit melanin formation	3-10%
MUSCLE RELAXATION & SKIN COMFORT			
Sensitive Skin Anti-Wrinkle & Elasticity Enhancing Peptide Solution	Specifically formulated for sensitive skin. Anti-wrinkle and anti-aging; repairs damaged skin; increases skin elasticity and smoothness	Four peptides combine to support the daily skin care needs of sensitive skin. The first peptide effectively eliminates wrinkles and enhances skin elasticity/firmness through promoting the production of hyaluronic acid and collagen; the second peptide focuses on anti-oxidation/anti-aging and repairs skin damage; the third peptide effectively controls continuous vasodilation and removes redness and swelling; the fourth peptide improves lymphatic circulation and reduces the release of proinflammatory cytokines	3-10%
Sensitive Skin Anti-Inflammation Soothing Peptide Solution	Effectively relieves inflammatory reactions in sensitive skin: reduces skin redness and swelling; soothes and relieves pain	Two ingredients work together to reduce skin sensitivity and inflammation. First, the major peptide ingredient stimulates the release of pro-endorphins, relieving pain and soothing the skin. It also effectively removes red blood streaks and redness by controlling vasodilation. Second, it is known that vanilloid receptor-1 (VR1) is highly involved with endogenous pain signaling. The other ingredient, a VR1 receptor antagonist, significantly increases the skin's tolerance threshold, quickly reduces burning and tingling sensations, and instantly cools the skin	2-6%

PRODUCT NAME	FUNCTION	MECHANISM	DOSE
HAIR GROWTH & CARE			
Hair Growth & Care Essential Peptide Solution	Stabilizes hair follicles, promotes hair follicle cell proliferation and hair growth; increases hair melanin content and enhances hair glossiness	This formulation contains three peptides for hair growth and care. The first peptide improves hair follicle cell metabolism, delays the hair follicle cell's aging process, and reduces hair loss; the second peptide promotes cell proliferation and differentiation, stimulates hair growth, improves hair follicle structure, and repairs hair follicle cells; the third peptide stimulates melanin production and promotes melanin transfer from melanocytes to keratinocytes, thereby restoring hair color	3-10%
EYELASH GROWTH			
Eyelash Promotor Peptide Solution	Enhances eyelash thickness and growth; improves glossiness; promotes the proliferation of hair follicle cells and stabilizes eyelash hair follicles	This formulation contains four peptides for eyelash growth and care. One peptide promotes eyelash growth by regulating keratin gene expression in the hair follicle; the second peptide repairs hair follicle cells, promotes cell proliferation and extracellular matrix synthesis, and delays hair follicle aging; the third peptide stabilizes hair follicles and reduces eyelash loss through promoting nutrient absorption and blood circulation; the fourth peptide reduces skin sensitivity and soothes the skin near the eyelash roots	3-10%



Customer Office in Boston



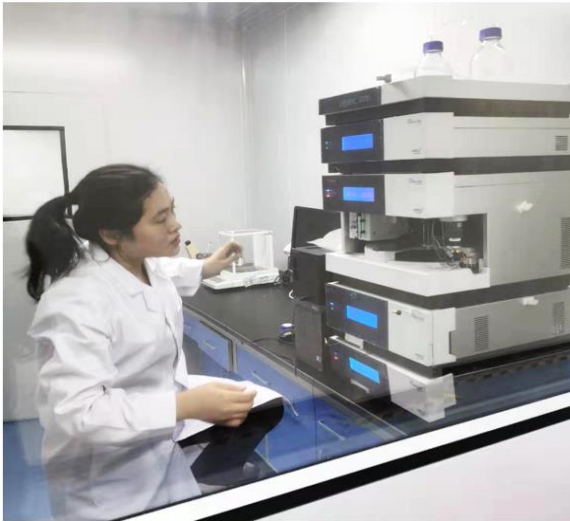
Our Team Providing Technical Support, Global Customer Service, and Shipping

R&D Laboratory



A 12,000 square-foot laboratory equipped with advanced instruments and technology and located in the China High-tech Industrial Development Zone

Powder Purification & Solution Production



5,000 Square Foot GMP Room Located at National High-tech Industrial Development Zone in China

Large-scale Production Base



30,000 square feet with three floors

Located at the High-tech New Medical Park Incubation Center in Zoucheng, Shandong


Why Buy From Active Peptide?

➤ **Advanced patented technologies allow us to provide**

- High purity peptides with advanced crystallization technology.
- Competitive prices due to production cost efficiency.
- Consistent quality assured by our ability to produce kilograms in each batch.
- Eco-friendly manufacturing due to the efficient use of solvents made possible by avoiding chromatographic purification.

➤ **Headquartered in Boston**

- Excellent technical support and customer service for global customers.
- Short lead time by building stock and shipping from different local offices.



**We are Committed to Becoming Your
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