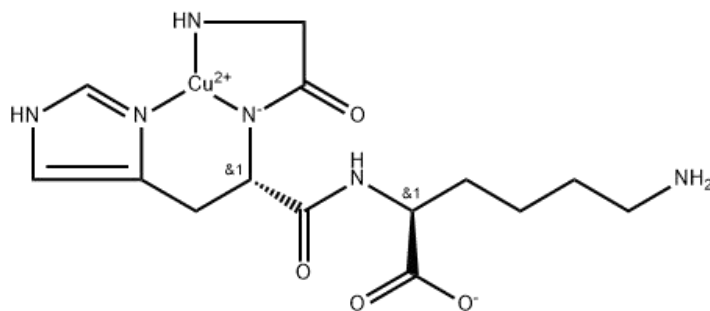


Technical Data Sheet

Product Name: Copper Tripeptide-1 (95% Powder)

INCI Name: Copper Tripeptide-1

Structure:



Product Properties:

Molecular Formula: C₁₄H₂₁CuN₆O₄

Molecular Weight : 400.91

CAS Number : 89030-95-5

EINECS : 1308068-626-2

Specification:

Items	Standards
Appearance	Blue powder
Identity by MS (GHK)	340.5±1.0
Purity (HPLC)	≥95.0%
Copper Content	7.5-10.5%
PH (1% Water solution)	5.5-7.5
Heavy metals (Pb)	≤10ppm
Arsenic	≤2ppm
Water	≤5.0%

Copper Tripeptide-1 is a metallopeptide complex formed by the combination of copper ions and tripeptide (Glycine-Histidine-Lysine), with high biological activity and transdermal absorption. By mimicking the mechanism of natural growth factors, it activates skin repair and regeneration signaling pathways, serving as a core active ingredient for anti-aging and repair in cosmetics.

Function:

- ❖ Anti-inflammatory repair: Inhibits the expression of inflammatory factors (such as IL-6, TNF- α), accelerates damaged skin repair, and relieves redness and sensitivity;
- ❖ Oxidative damage protection: Enhances superoxide dismutase (SOD) activity, neutralizes free radicals, and reduces oxidative stress caused by UV and pollution;
- ❖ Wound healing promotion: Accelerates keratinocyte proliferation and migration, improving the repair speed of skin flaw such as acne scars and wounds.

Application:

- ❖ Anti-aging skin care: Added to serums and creams to provide deep repair for wrinkles and sagging, restoring skin firmness;
- ❖ Problem skin repair: Used in acne repair serums and scar lightening products to reduce post-inflammatory hyperpigmentation and promote skin healing;
- ❖ High-end repair products: Used as a core ingredient in freeze-dried powders and ampoules to strengthen dermal structure and enhance skin elasticity and moisture; Scalp care: Added to anti-hair loss and hair growth serums to improve the hair follicle microenvironment and promote hair growth and strength.

Recommended use level: 5.0%-50.0% (Water-soluble)

Package:

1g/bottle;Or as per customer requirements.

Storage:

Store at a temperature of 2-8°C, keep sealed and away from light.

Shelf life:

Two years.

Disclaimer:

The above information is meant to be informative and for general purpose only. MRK Trading accept no liability arising from or in connection with use or reliance of this information or anything contained in it. Please seek independent professional advice and perform laboratory test if necessary.