



Peptiboost® Cu P

Description

Copper tripeptide is a multifunctional component which is naturally present in the body (signal and carrier peptide) and is responsible for stimulation of collagen synthesis, anti-inflammatory actions, accelerated wound healing and tissue repair. Loren Pickart and Michael Thaler isolated the copper peptide GHK-Cu from human plasma albumin in 1973. In 1977, the growth modulating peptide was shown to be a glycyl-L-histidyl-L-lysine. The skin remodeling properties of copper tripeptide can even lead to scar and stretch mark removal as old cells are degraded and new cell growth is promoted. Copper tripeptide is utilized by essentially every cell and organ, resulting in the formation of important copper-dependent enzymes. It was shown that copper, delivered in the form of copper peptides, stimulates many actions: repair and remodeling of skin, reduction of wrinkles, improvement of skin firmness and elasticity, enlargement of hair follicles and stimulation of hair growth.

Peptiboost® Cu P is a water soluble, synthetic copper tripeptide which acts as signal and carrier peptide improving cell metabolism and barrier function of the skin. It is essential for the formation of copper enzymes, including cytochrome C oxidase (energy production), superoxide dismutase (anti-oxidation) and lysin oxidase (cross linking of elastin and collagen skin). Peptiboost® Cu P also accelerates wound healing and supports the buildup of granulation tissue. This product stimulates skin repair and remodels the skin, exhibits anti-wrinkle and anti-aging activity and firms the skin. It also helps to enlarge hair follicle and stimulates hair growth. It is recommended for skin care and hair care applications.

Efficacy

- reduces wrinkles
- remodels the skin
- increases skin thickness
- improves skin barrier repair and function
- improves wound healing
- stimulates hair growth
- enlarges hair follicles
- reduces scar tissue, e.g. from acne
- acts as an antioxidant

Appearance

blue powder

INCI

Bis(Tripeptide-1) Copper Acetate or Copper Tripeptide-1

Registration

CAS-No.....130120-57-9

EC-No.....-/-

Preservatives / Stabilizers

none

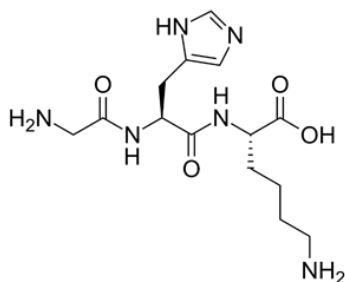


The power behind cosmetics!
Nature & Science in perfect balance

Peptiboost[®] Cu P

Characteristics

purity (HPLC).....>= 98 %
 water content (K.Fischer).....<= 8 %
 copper (Cu).....4 - 9 %
 molecular weight.....742.29 +- 1 g/mol



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(structure tripeptide GHK without copper)

molecular formula.....C₂₈H₄₆N₁₂O₈Cu
 molecular weight:
 tripeptid (GHK).....340.38 g/mol
 copper complex.....742.29 g/mol
 synonym.....GHK-Cu, Glycyl-L-Histidyl-L-Lysine

Application

in high quality cosmetic products
 creams and lotions
 face masks
 gels and ampoules

Application concentration

skin care formulations.....0.05 - 1 %

Incorporation

Peptiboost[®] Cu P should be incorporated into the water phase during the cooling stage at temperatures below 40 °C. To maintain optimal stability and preserve the characteristic colour of the copper peptide complex, a final formulation pH between 5.0 and 7.0 is recommended, while strong acidic conditions should be avoided. The use of chelating agents such as EDTA is not recommended, as they may interfere with the copper complex. In addition, combinations with oxidation-sensitive actives, including Vitamin C and Tranexamic Acid, should be avoided. Compatibility issues may also occur with Niacinamide, Sodium Polyglutamate, Carbomer, Caprylhydroxamic Acid, fruit acids, and highly ionic botanical extracts such as Aloe Vera Extract. Compatibility testing is recommended when formulating with other active ingredients to ensure optimal product stability and performance.

Toxicology

non hazardous in normal use concentration

Storage & Shelf life

Peptiboost[®] Cu P should be stored in sealed containers at a dry, cool place at 2 - 8 °C. For long time storage -20 °C is recommended.

In closed original containers the shelf life is 24 months.