

Peptiboost[®] Cu L

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 L is a solution of 0.1 % 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 L 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

clear blue solution

INCI

Aqua, Glycerin, Bis(Tripeptide-1) Copper Acetate
or Copper Tripeptide-1

Registration

CAS-No.:

Aqua.....7732-18-5
Glycerin.....56-81-5
Bis(Tripeptide-1) Copper Acetate.....130120-57-9
or Copper Tripeptide-1.....-/-



Nature needs no cosmetics,
but cosmetics need nature

Peptiboost[®] Cu L

EC-No.:

Aqua.....231-791-2

Glycerin.....200-289-5

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

Preservatives / Stabilizers

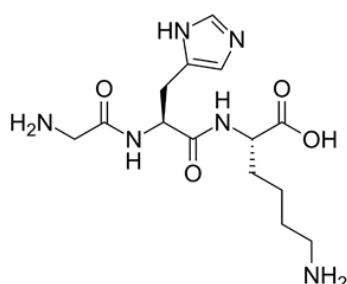
preservatives.....none

stabilizer:

Caprylyl Glycol / Ethylhexylglycerin.....0.5 %

Characteristics

peptide content.....>= 0.1 %



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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.....5 - 50 %

Incorporation

Peptiboost[®] Cu L should be blended into the water phase below 40°C. Avoid using chelating agents like EDTA and a strong acidic pH range. A pH of > 5.5, 6.0 - 7.0 is recommended to maintain the color and stability of the copper peptide. Copper peptides can promote oxidation, therefore the combination with for example Tranexamic acid or Vitamin C should be avoided.

Toxicology

non hazardous in normal use concentration

Storage & Shelf life

Peptiboost[®] Cu L should be stored in sealed containers at a dry, cool place at 2 - 8°C.

In closed original containers the shelf life is 24 months.