

Peptiboost[®] Eyes P

Description

Peptiboost[®] Eyes P is a bioactive peptide (acetyl tetrapeptide-5) especially designed to target the tender skin around the eyes. Peptides are short chains of amino acid monomers linked by peptide (amide) bonds (covalent bond between carboxyl and amino acid group). The shortest peptides are dipeptides, consisting of 2 amino acids joined by a single peptide bond, followed by tripeptides, tetrapeptides, etc.. Peptides are distinguished from proteins on the basis of size. As an arbitrary benchmark, peptides contain approximately 100 or less amino acids.

Acetyl tetrapeptide-5 improves puffy eye bags via anti-oedema and anti-glycation effects. Glycation is a chemical process where sugar molecules bind and destroy proteins in the skin, what can be responsible for virtually every sign of skin aging. Glycation causes skin sagging, tiring, discoloration and changes in the skin structure. Acetyl tetrapeptide-5 inhibits glycosylation and angiotensin-converting enzyme 1 (ACE-1) activity. It can reduce the contraction and edema of the vascular wall and inhibit the formation of advanced glycosylation products. It relieves vascular pressure by improving the vascular system and strengthening the skin under the eyes. Acetyl tetrapeptide-5 acts as an antioxidant and improves skin elasticity.

Efficacy

- reduces eye bags
- acts as an antioxidant
- reduces inflammations
- minimizes visible signs of stress
- improves a healthy look

Appearance

white to off white powder

INCI

Acetyl Tetrapeptide-5

Registration

CAS-No.....-/-
EC-No.....-/-

Preservatives / Stabilizers

none

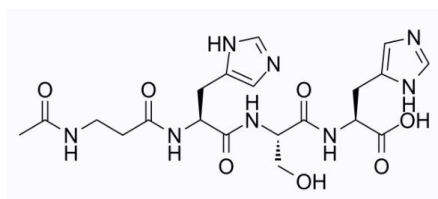


Nature needs no cosmetics,
but cosmetics need nature

Peptiboost[®] Eyes P

Characteristics

loss on drying..... $\leq 10\%$
melting point 349.84°C
purity (HPLC)..... $\geq 95\%$
acetic acid (HPLC)..... $< 15\%$



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molecular weight..... $492.5 \pm 1.0 \text{ g/mol}$

Application

daily cosmetic products
creams and lotions
face masks
gels and ampoules
eye fluids
concealer

Application concentration

skin care formulations..... $0.005 - 0.1\%$

Incorporation

0.1% Peptiboost[®] Eyes P is soluble in water, ethanol/water (1:1), glycerin and pentylen glycol at RT. Poorly soluble in ethanol, even at 40°C . It should be blended into the water phase below 40°C .

Toxicology

non hazardous in normal use concentration

Storage & Shelf life

Peptiboost[®] Eyes P should be stored in a dry, well ventilated, and light protected place at $2^{\circ}\text{C} - 8^{\circ}\text{C}$. Keep the container tightly closed. Brief exposure up to 35°C for max. 2 weeks possible. For long time storage -20°C is recommended.

In closed original containers the shelf life is two years.