

Peptiboost[®] Lightening

Description

Peptiboost[®] Lightening, or Oligopeptide-34, is a synthetic peptide containing 13 amino acids. It consists of arginine, aspartic acid, isoleucine, glutamine, leucine, serine, threonine, and tryptophan. Peptiboost[®] Lightening decreases melanin synthesis and tyrosinase activity in melanocytes. Skin pigmentation, such as freckles, is caused by enhanced melanin production or melanocyte proliferation due to factors like e.g UV rays. Hyperpigmentation can be prevented by either reducing the tyrosinase activity, decreasing the melanocyte functions, or decreasing dopa, preventing its autooxidation and suppressing inflammatory responses. Peptiboost[®] Lightening decreases the transfer of melanosomes to new keratinocyte cells, promoting a significant skin-brightening effect. It decreases dermal lymphocyte cell proliferation, reducing inflammations noticeably and promotes the division and differentiation of fibroblasts. Hence, it significantly increasing collagen, elastin, and fibronectin levels in the skin's extracellular matrix (ECM).

Peptiboost[®] Lightening is suitable for skin care applications dedicated to skin whitening and brightening, as well as anti-aging formulations regarding its anti-inflammatory and firming properties.

Efficacy

- reduces hyperpigmentation
- promotes lightening and an even skin tone on all skin types
- diminishes senile lentigo
- reduces age spots
- minimizes liver spots
- reduces the degree of skin tanning after UV exposure

Appearance

white to off white powder

INCI

Oligopeptide-34

Registration

CAS-No.....-/-

EC-No.....-/-

Preservatives / Stabilizers

none



Nature needs no cosmetics,
but cosmetics need nature

Peptiboost[®] Lightening

Characteristics

purity (HPLC).....>= 95 %
water content.....<= 7 %
acetic acid (HPLC).....<= 15 %
molecular weight.....1467.5 ± 1 g/mol

Application

daily cosmetic products
creams and lotions
face masks
gels and ampoules
body care

Application concentration

skin care formulations.....0.005 – 0.05 %

Incorporation

Peptiboost[®] Lightening is soluble in water. It should be added at the end of production.

Toxicology

non hazardous in normal use concentration

Storage & Shelf life

Peptiboost[®] Lightening should be stored in a dry and light protected place at 2 - 8°C. For long storage at -20°C.

In closed original containers the shelf life is 24 months.