

Peptilash[®] Growth P

Description

Peptilash[®] Growth P is a signal peptide that significantly stimulates keratin gene expression, guiding cell growth and growth factor secretion to enhance the appearance of eyelashes and hair by thickening and lengthening them. Keratin is the most important structural protein in hair, nails and the outermost layer of the skin. Peptilash[®] Growth P is a synthetic myristoyl pentapeptide with the sequence Myristoyl-Lys-Leu-Ala-Lys-Lys-NH₂ and good bioavailability, that was shown to significantly increase the skin's own keratin level, leading to visibly increased eyelash growth.

Eyelash growth, as well as hair growth, is essentially regulated by the hair follicle. Most mammalian hair follicle cycles have three phases: growth phase (anagen), catagen phase and telogen phase. Hair follicles are periodically regulated by many factors (such as growth factors, cytokines, corticosteroids). Peptilash[®] Growth P affect hair follicles indirectly, by stimulating hair follicle cell growth and development and is thereby promoting eyelash growth.

Efficacy

- helps eyelashes to appear longer, fuller and stronger
- promotes hairbulb keratinocyte proliferation
- ensures optimal hair anchorage
- increases hair growth and volume
- prevents hair loss
- suitable for pre-aging formulations (slows down aging effects)
- stimulates keratin growth

Appearance

white to off white powder

INCI

Myristoyl Pentapeptide-17

Registration

CAS-No.....959610-30-1

EC-No.....-/-

Preservatives / Stabilizers

none

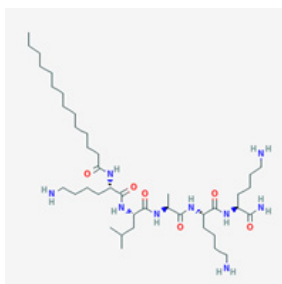


Nature needs no cosmetics,
but cosmetics need nature

Peptilash[®] Growth P

Characteristics

purity (HPLC).....> = 98 %
water content (K.Fischer).....< = 7 %



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molecular formula.....C₄₁H₈₁N₉O₆
molecular weight.....796.16 +-1 g/mol
synonym.....Myr-KLAKK-NH₂

Application

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

Application concentration

skin care formulations.....0.005 - 0.05 %
hair care and mascara.....0.005 - 0.05 %

Incorporation

Peptilash[®] Growth P is a cationic peptide. When an anionic polymer, such as sodium hyaluronate or xanthan gum, is added flocculation occurs. We recommend using thickeners like hydroxyethyl cellulose instead.

Peptilash[®] Growth P should be blended into the water phase below 40°C.

Toxicology

non hazardous in normal use concentration

Storage & Shelf life

Peptilash[®] Growth P 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.