

Base Information

Palmitoyl Oligopeptide

INCI name:**Palmitoyl oligopeptide**

Peptide Sequence:

Pal-Gly-His-Lys-OH

Molecular Formula:

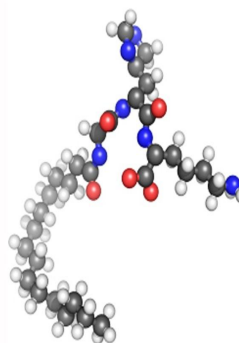
 $C_{30}H_{54}N_6O_5$

Molecular weight:

578.79

Cas No.

147732-56-7

*Palmitoyl oligopeptide*

Application:

cosmetics – anti-aging, firming care,
remodeling skin care, photoaging
cosmetic formulation at the final stage
of the manufacturing, provided the
temperature is below 45 °C

Packaging:

bottle

Filling quantity:

1 g / bottle

5 g / bottle

10 g / bottle

special packaging upon request



Storage and Shelf life:

2 - 8 °C, cool, dark and clean
shelf life 12 months.

Specifications

Palmitoyl Oligopeptide

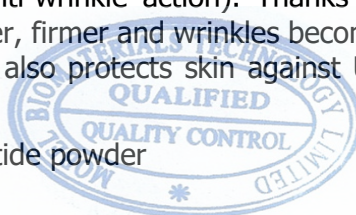
Test items	Specification
Appearance	white powder
Identity by HPLC	the retention is same with the reference substance
Identity by MS	578.80 $\pm$ 1
Solubility	insoluble in water
Amino acid composition	$\pm$ 10 % of theoretical
Peptide purity (by HPLC)	$\geq$ 95.0 % by area integration
Water content (Karl Fischer)	$\leq$ 8.0 %
Acetate content	$\leq$ 15.0 %

Characteristics

Palmitoyl Oligopeptide is a synthetic peptide comprised of three amino acids: Gly-His-Lys. GHK is a matrikine peptide messenger notably involved in the process of cutaneous repair. GHK is a tripeptide fragment of the collagen chain.

Palmitoyl Oligopeptide stimulates collagen and glycosaminoglycan synthesis; its activity stands comparison with retinoic acid and is thus recommended for the restructuration of dermal matrix (firming and anti-wrinkle action). Thanks to protein and glycan neosynthesis, skin grows thicker, firmer and wrinkles become smoother. The production of extracellular matrix also protects skin against UV rays.

Use level: 0.05 -0.2 % for Palmitoyl Oligopeptide powder
(soluble in water, optimum pH: 4-6)



Cosmetic benefits

Stimulates collagen and glycosaminoglycan synthesis

Reinforces the epidermis

Diminishes wrinkles