



Palmitoyl oligopeptide

INCI name:	Palmitoyl oligopeptide Palmitoyl tripeptide-1
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
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.



Product Spezifikation

Palmitoyl Oligopeptide

Manufacturing date: 08.10.2019

Expiry date: 07.10.2021

Test	Specification	Batch YS1910PT1
Appearance	white powder	conforms
Identity by HPLC	the retention is same with the reference substance	conforms
Identity by MS	578.80 ±1	conforms
Solubility	insoluble in water	conforms
Amino acid composition	± 10 % of theoretical	conforms
Peptide purity (by HPLC)	≥ 95.0 % by area integration	98.06 %
Water content (Karl Fischer)	≤ 8.0 %	3.17 %
Acetate content	≤ 15.0 %	0.26 %

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 restructuring 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: 0.001-0.01 % for Palmitoyl Oligopeptide powder (soluble in water, optimum pH: 4-6)

Cosmetic benefits

stimulates collagen and glycosaminoglycan synthesis

reinforces the epidermis

diminishes wrinkles