Palmitoyl Tripeptide-1 (=Palmitoyl Oligopeptide)

INCI	Palmitoyl Tripeptide-1 / 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
Synonym:	Biobustyl
Application:	cosmetics – anti-aging firming care remodeling skin care
Packaging:	bottle
Filling quantity:	1 g / bottle 5 g / bottle 10 g / bottle 100 g / bottle special packaging upon request
Storage and shelf life:	cool, dark and clean place -20°C shelf life 24 months 2 – 8 °C shelf life 12 months

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Product Specification

Palmitoyl Tripeptide-1 (=Palmitoyl Oligopeptide)

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	soluble in water	conforms
Peptide purity (by HPLC)	≥ 95 %by area integration	98.06 %
Water content (Karl Fischer)	≤ 8 %	3.17 %
Acetate content	≤ 15 %	0.26 %
Amino acid composition	± 10 % of theoretical	conforms

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: 0.001 – 0.01 % (soluble in water, optimum pH 4-6)

Palmitoyl OligoHexa-12 should be incorporated at the end of the formulation at a temperature < 40 °C.

Cosmetic benefits

. stimulates collagen and glycosaminoglycan synthesis
. reinforces the epidermis
. diminishes wrinkles

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