



## Palmitoyl hexapeptide-12

<b>INCI name:</b>	<b>Palmitoyl hexapeptide-12</b>
Peptide Sequence:	Pal-VGVAPG
Molecular Formula:	$C_{36}H_{68}N_6O_8$
Molecular weight:	736.98
Cas No.:	171263-26-6
Synonyms:	Biopeptide EL
Application:	Cosmetics
Packaging:	bottle
Filling quantity:	1 g / bottle 5 g / bottle 10 g / bottle 100 g / bottle special packaging upon request
Storage and Shelf life:	2 - 8 °C cool, dark and clean shelf life 24 months

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## Product Specification

# Palmitoyl hexapeptide-12

Manufacturing date: 07.05.2019

Expiry date: 06.05.2021

Test	Specification	Batch 1905PHP12
Appearance	white to off-white powder	conforms
Identity (by HPLC)	the retention is the same with the reference substance	conforms
Identity by MS	736.98 ± 1	conforms
Peptide purity (by HPLC)	> 95.0 % by area integration	95.02 %
Water content (Karl Fischer)	< 8.0 %	0.78 %

### Characteristics

Hexapeptide VGVAPG is the "spring fragment" of elastin. It is a matrikine messenger peptide specifically involved in repairing the age related skin damage. VGVAPG is chemotactic, attracting fibroblasts and monocytes onto the site of macromolecules synthesis and the gene expression of Granulocyte chemotactic protein which is able to recruit cells involved in the preparation and cleansing of the site of damage area.

Use level: 0.002 – 0.005 % (insoluble in water)

### Cosmetic benefits

1. In palmitoylated form to increase skin penetration
2. Stimulates the proliferation of fibroblast and producing of elastins
3. Improves the firmness, suppleness and tonicity of the skin with outstanding results in short term