



## Palmitoyl pentapeptide-7

<b>INCI name:</b>	<b>Palmitoyl pentapeptide-7</b>
Peptide Sequence:	Pal-Lys-Thr-Thr-Lys-Ser-OH
Molecular Formula:	C <sub>39</sub> H <sub>75</sub> N <sub>7</sub> O <sub>10</sub>
Molecular weight:	802.05
Cas No.	214047-00-4
Synonym:	Palmitoyl pentapeptide-3
Application:	Cosmetics – wrinkle prevention and repair, eye contourcare, mature skin range
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, dark and clean shelf life 24 months



Product Spezifikation

**Palmitoyl pentapeptide-7**

Manufacturing date: 28.02.2018

Expiry date: 27.02.2020

Test	Specification	Batch No. 20180228
Appearance	white powder	conforms
Identity	802.05 ± 1	802.37
Solubility	insoluble in water	conforms
Amino acid composition	± 10 % of theoretical	conforms
Peptide purity (by HPLC)	≥ 95.0 % by area integration	98.5 %
Water content (Karl Fischer)	≤ 8.0 %	3.6 %
TFA content	≤ 15.0 %	8.7 %

**Characteristics**

Palmitoyl Pentapeptide-7 belongs to the family of matrikines (peptidic fragments, messengers of the natural process of tissue repair). It stimulates the skin fibroblasts in order to reconstitute the extracellular matrix and epidermal-dermal junction: it leads to the synthesis of collagen I, II, IV, fibronectin and glycosaminoglycan. It also stimulates wound healing gene expression.

Use level: 0.001 – 0.005 %

**Cosmetic benefits**

- Repairing the matrix and the epidermal-dermal junction
- Improve skin wrinkles, roughness and thickness
- Palmitoyl Pentapeptide-7 is a remarkable alternative of retinal and vitamin C with higher activity and no toxicological danger.