



Palmitoyl pentapeptide-7

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| INCI name: | Palmitoyl pentapeptide-7 |
| Peptide Sequence: | Pal-Lys-Thr-Thr-Lys-Ser-OH |
| Molecular Formula: | $C_{39}H_{75}N_7O_{10}$ |
| 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.