



## Acetyl tetrapeptide-3

<b>INCI name:</b>	<b>Acetyl tetrapeptide-3</b>
Peptide Sequence:	Ax-Lys-Gly-His-Lys-NH <sub>2</sub>
Molecular Formula:	C <sub>22</sub> H <sub>39</sub> N <sub>9</sub> O <sub>5</sub>
Molecular weight:	509.61
Cas No.	827306-88-7
Synonyms:	Capixyl
Application:	Cosmetics
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 24 months



## Product Specification

# Acetyl tetrapeptide-3

Manufacturing date: 27.02.18

Expiry date: 26.02.2020

Test	Specification	Batch YS1802ATP3
<b>Appearance</b>	white powder	conforms
<b>Solubility</b>	soluble in water	conforms
<b>Identity</b> (by HPLC)	the retention is same with the reference substance	conforms
<b>Identity by MS</b>	509.31 ± 1	conforms
<b>Amino acid composition</b>	± 10 % of theoretical	conforms
<b>Peptide purity</b> (by HPLC)	> 95.0 % by area integration	98.67 %
<b>Water content</b> (Karl Fischer)	< 8.0 %	4.72 %

### Characteristics

Acetyl tetrapeptide-3 is a 4 amino acids biomimetic peptide derived from a signal peptide which stimulate tissue remodeling by inducing collagen III, collagen IV and laminin synthesis. This peptide has a direct effect on hair follicle. The remodeling signal will increase the size of hair follicle for better hair anchoring and vitality.

Use level: 0.001 - 0.005 % (maximum dose: 0.02 %)

### Cosmetic benefits

Acetyl tetrapeptide-3 stimulates dermal papilla extracellular matrix proteins thus having a direct effect on hair follicle size and better anchoring.

Acetyl tetrapeptide-3 provides a repairing effect at the dermal-epidermal junction level, improving hair anchoring.

Acetyl tetrapeptide-3 stimulates hair growth with higher activity than the reference hair growth products, minoxidil.