

Acetyl Tetrapeptide-3

INCI	Acetyl Tetrapeptide-3
Peptide Sequence:	Ax-Lys-Gly-His-Lys-NH ₂
Molecular Formula:	C ₂₂ H ₃₉ N ₉ O ₅
Molecular weight:	509.61
Cas No.:	827306-88-7
Synonym:	Capixyl
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:	cool, dark and clean place -20°C shelf life 24 months 2 - 8 °C shelf life 12 months



Product Specification

Acetyl Tetrapeptide-3

Test	Specification	Batch YS1802ATP3
Appearance	white powder	conforms
Identity by HPLC	the retention is same with the reference substance	conforms
Identity by MS	509.31±1	conforms
Solubility	soluble in water	conforms
Peptide purity (by HPLC)	> 95 % by area integration	98.67 %
Water content (Karl Fischer)	< 8 %	4.72 %
Amino acid composition	± 10 % of theoretical	conforms

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 % (water soluble)

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.

