

Acetyl Tetrapeptide-2

INCI	Acetyl Tetrapeptide-2
Peptide Sequence:	Ac-Lys-Asp-Val-Tyr-OH
Molecular Formula:	C ₂₆ H ₃₉ N ₅ O ₉
Molecular weight:	565.62
Cas No.:	1239011-60-9
Synonym:	Uplevity
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-2

Test	Specification	Batch YS1705ATP2
Appearance	white powder	conforms
Identity by HPLC	the retention is same with the reference substance	conforms
Identity by MS	565.63±1	conforms
Solubility	soluble in water	conforms
Peptide purity (by HPLC)	≥ 95 %	98.26 %
Water content (Karl Fischer)	≤ 8 %	4.5 %
Acetic Acid Content	≤ 15 %	2.2 %

Characteristics

Acetyl Tetrapeptide-2 fights sagginess by enhancing key elements to the assembly of elastin and several collagens and overexpressing genes involved in cellular adhesion. Acetyl Tetrapeptide-2 induces the expression of proteins Fibulin 5 and Lysyl Oxidase-Like 1, contributing to the organization of elastic fibre and upregulates key genes to cellular cohesion through focal adhesions (talin, zyxin, integrins). Moreover, it induces the synthesis of elastin and collagen I.

Use level: 0.002 – 0.005 %, maximum 0.05 % (water soluble, optimum pH 5-7)

Acetyl Tetrapeptide-2 can be incorporated in cosmetic formulations to tight sagginess and loss of firmness, especially in mature skin at the final stage of the manufacturing product, provided the temperature is below 45 °C.

Cosmetic benefits

- . Skin firming and anti-sagging
- . Reshapes the contour of the face

