

# Acetyl Dipeptide-3 Aminohexanoate

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**INCI** Acetyl Dipeptide-3 Aminohexanoate

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**Molecular Formula:**  $C_{17}H_{32}N_6O_5$

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**Molecular weight:** 400.64

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**Cas No.:** 1265905-30-3

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**Synonym:** Bodyfensine

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**Application:** cosmetics

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**Packaging:** bottle

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**Filling quantity:** 1 g / bottle  
5 g / bottle  
10 g / bottle  
100 g / bottle  
special packaging upon request

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**Storage and shelf life:** cool, dark and clean place  
-20°C shelf life 36 months  
2 - 8 °C shelf life 12 months

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# Product Specification

## Acetyl Dipeptide-3 Aminohexanoate

Test	Specification	Batch YS210301
Appearance	white or off-white powder	conforms
Identity by HPLC	the retention is same with the reference substance	conforms
Identity by MS	400,48±1	400,42
Solubility	soluble in water	conforms
Peptide purity (by HPLC)	>95 % by area integration	99,35 %
Water content (Karl Fischer)	< 8 %	5,60 %
TFA content	< 15 %	not detected

### Characteristics

Long-lasting beauty and healthy skin are substantial clues of the quality of life for most people. Especially, people often with dermatological problems often feel uncomfortable in their own skin and are concerned not only by the wrinkles formation but also by the apparition of redness, infections and acne lesions.

These peptides provide protection from widespread bacterial invasion and promote wound healing.

Acetyl Dipeptide-3 Aminohexanoate, which has been designed through a combinatorial chemistry approach, stimulates human- $\beta$ -defensin-2 and -3, enhancing the skin's natural defense system therefore maintaining the balance between commensal microbes and pathogens in the skin.

Acetyl dipeptide-3 aminohexanoate can be incorporated in daily cosmetic formulations where an extra defense is desired, including oral care products at the final stage of the manufacturing, provided the temperature is below 40 °C.

Use level: 0.005 %, maximum dosage: 0.05 % (water soluble, Optimum pH 5-7)

### Cosmetic benefits

Acetyl dipeptide-3 aminohexanoate reinforces the skin's innate immunity, stimulation the first line of the defense between the skin and the environment. Acetyl dipeptide-3 aminohexanoate lowers the risk of possible infections by external agents, such as in acne-prone skin.

