



## Dipeptide diaminobutyroyl benzylamide diacetate

<b>INCI name:</b>	<b>Dipeptide diaminobutyroyl benzylamide diacetate</b>
Peptide Sequence:	H-β-Ala-Pro-Dab-NH-Bzl
Molecular Formula:	C <sub>19</sub> H <sub>29</sub> N <sub>5</sub> O <sub>3</sub>
Molecular weight:	375.71
Cas No.	823202-99-9
Application:	Cosmetics – anti-wrinkle / wrinkle-smoothing
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

### Dipeptide diaminobutyroyl benzylamide diacetate

Manufacturing date: 18.12.2017

Expiry date: 17.12.2019

Test	Specification	Batch No. 20171218
Appearance	white powder	conforms
Identity	375.48 ± 1	375.3
Solubility	≥ 100 mg/ml (H <sub>2</sub> O)	conforms
Amino acid composition	± 10 % of theoretical	conforms
Peptide purity (by HPLC)	≥ 95.0 % by area integration	98.13 %
Water content (Karl Fischer)	≤ 8.0 %	3.85 %
Acetate content	≤ 25.0 %	24.36 %

#### Characteristics

Dipeptide diaminobutyroyl benzylamide diacetate is an anti-wrinkle active compound based on a synthetic tripeptide that mimics the effect of Waglerin 1, found in the venom of the Temple Viper. It`s effect focus on an immediate and lasting relaxation of mimicry wrinkle by blocking the neuronal transmission on the nicotinic acetylcholine membrane`s receptor (mnAChR). As the muscular nicotinic Ach receptors are blocked, the ion channel remains closed. There is no uptake of Na<sup>+</sup> and the muscle cells stay relaxed. The transmission of nerve impulses to the muscles is inhibited and facial muscles are relaxed.

Use level: 4 % dilution

#### Cosmetic benefits

The frequency of muscle contraction is reduced only after 2 minutes treatment. In vivo testing showed an impressive reduction of over 50 % in wrinkle size after 28 days.

- Helps reduce wrinkles and laughter lines.
- Age-defying products particularly effective against expression lines.
- Intensive wrinkle-smoothing products.