

EFFCI-GMP-RP30133
Update: Dec,28,2023**DATASHEET**

Dipeptide Diaminobutyroyl Benzylamide Diacetate Stock Solution

Cat. No.: EFFCI-GMP-RP30133

Overview

Synonyms	GS-PepFirming™ Dipeptide Diaminobutyroyl Benzylamide Diacetate Stock Solution
Description	GS-PepFirming™ Dipeptide Diaminobutyroyl Benzylamide Diacetate Stock Solution, with active component - Dipeptide Diaminobutyroyl Benzylamide Diacetate, is an anti-wrinkle active compound based on a synthetic tripeptide that mimics the effect of Waglerin 1, a peptide that is found in the venom of the Temple Viper, <i>Tropidolaemus wagleri</i> .

Properties

Form	Stock Solution
Storage	For short term storage, it is recommended to store in a cool, dark and clean place to ensure a shelf life of six months. For long-term storage, it is recommended to store at 4°C, and shelf life can be extended to 24 months. This product is a liquid product and should be placed upward to avoid extrusion and leakage. During the storage period, try to keep the cap sealed, once opened, should be used as soon as possible.
Note	The product can be incorporated at the final stage of the manufacturing product, provided the temperature is below 40°C. It is recommended that 1 to 4% of the solution is present in the final formulation in order to obtain significant activity.

Applications

Muscle contraction is another strategy to reduce common ageing signs like fine lines and wrinkles. Muscles are contracted by neurotransmitter release from neurons. This process is mediated by a SNAP receptor protein which directly manage vesicle docking and fusion through the formation of the SNARE complex. The SNARE complex captures vesicles and fuses them with the membrane. Once the fusion of these vesicles occurs, acetylcholine is released into the synapse between muscle and nerve. Acetylcholine binds to acetylcholine receptors located on the surface of the muscle cells, and this leads to muscle contraction. Dipeptide Diaminobutyroyl Benzylamide's effect focuses on an immediate and lasting relaxation of mimicry wrinkles by blocking the neuronal transmission on the Nicotinic Acetylcholin receptor. The peptide is an antagonist of the muscular 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⁺ and the muscle cells stay relaxed. The transmission of nerve impulses to the muscles is inhibited and facial muscles are relaxed. It can be incorporated in various anti-wrinkle cosmetic formulations such as emulsions, gels, essence, eye cream, etc.

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