

Rev01
Update: Apr,24,2023

DATASHEET

GS-PepFirming™ Acetyl Hexapeptide-1

Cat. No.: RP30144

Overview

Description	Acetyl hexapeptide-1 is a botulinum toxin-like peptide obtained by in-silico design. It is widely used in anti-wrinkle products with higher activity and lower side effects.
Molecular Formula	C ₄₃ H ₅₉ N ₁₃ O ₇
Molecular Weight	870.0

Properties

Purity	>95%
Form	Lyophilized
Storage	Store at -20°C. Keep tightly closed. Store in a cool dry place.
Note	Processing and Dosage: The peptide can be incorporated at a temperature below 40°C during the final stage of cosmetic manufacturing. It is recommended that 5 to 5000 ppm of the powder is present in the final formulation in order to obtain significant activity.

Applications

Acetyl hexapeptide-1 competing with specific sequences located in the surface of interaction between Munc18 and Syntaxin -1 allows an interference or inhibition of said complex Munc18-Syntaxin-1 and, hence an inhibition of neurotransmitter release. If the SNARE complex is slightly destabilized, the vesicle cannot release neurotransmitters efficiently and therefore muscle contraction is attenuated, preventing the formation of lines and wrinkles. It can be incorporated in cosmetic formulations such as emulsions, gels, essence, eye cream, etc., where removal of the deep lines or wrinkles in the forehead or around the eye area is desired.

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