

argirelox™

peptide



While waiting for the next injection



Complements the effect of BoNT-A between sessions

Maintains and prolongs wrinkle reduction

Almost 3 times better than the injection alone



Description

Active ingredient that fights expression wrinkles by attenuating muscle contraction in the pre-synaptic pathway. **argirelox™ peptide** modulates acetylcholine (ACh) release from the fusion of the fixed vesicles to the cellular membrane in the SNARE complex, relaxing the muscle. It helps maintain the visible anti-wrinkle effect of botulinum toxin A (BoNT-A) for a longer period of time.

Appearance

Translucent solution containing:

0.050% Acetyl Hexapeptide-8

0.025% Pentapeptide-18

INCI

Water (Aqua), Glycerin, Acetyl Hexapeptide-8, Pentapeptide-18, Citric Acid, Caprylyl Glycol.

Preservative free.

Properties

argirelox™ peptide attenuates expression wrinkles by modulating the release of neurotransmitters that induce muscle contraction. It helps to prolong the effect obtained by BoNT-A injections in both glabellar lines and crow's feet wrinkles.

Applications

argirelox™ peptide is the ideal ingredient to incorporate into facial formulations, especially developed to complement injections between sessions.

Science

Society is consistently striving to live longer without showing visible signs of aging. Expression wrinkles are the first lines to appear and become more pronounced with time. Their formation is the result of repeated muscular contractions such as talking, smiling, drinking or smoking.

BoNT-A injections are a popular dermatological treatment to temporarily smooth moderate to severe frown lines, and has recently been approved to treat de crow's feet area as well. A small sterile dose of this purified toxin injected in the skin blocks the release of the neurotransmitter ACh as it cleaves the SNAP-25 protein, hence preventing the assembly of the SNARE complex. The nerve signal cannot be relayed, the muscle cannot be contracted and it becomes paralyzed. But such injections need to be applied every six months.

argirelox™ peptide acts on the modulation of muscle contraction by reducing ACh release at the synapse, as it competes for a position in the SNARE complex but also blocks the entrance from calcium ions, which is necessary for vesicle fusion with the membrane. This is the perfect complement to injections as it can potentiate and maintain the effect of BoNT-A.

Dosage 10%

Solubility

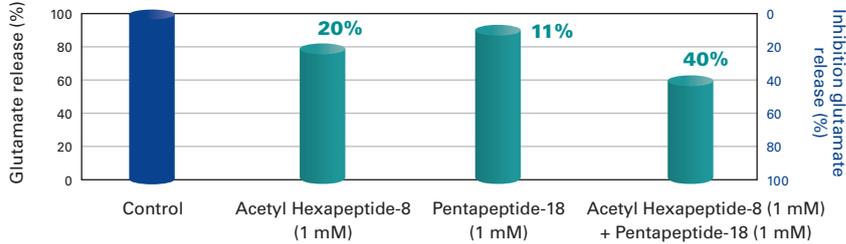
Water soluble.



In vitro efficacy

MODULATION OF GLUTAMATE RELEASE

The glutamate release by neuron cells is a validated assay to determine the release of acetylcholine as it is the most abundant neurotransmitter in the nervous system. Non-treated neuron cells were used as a negative control.



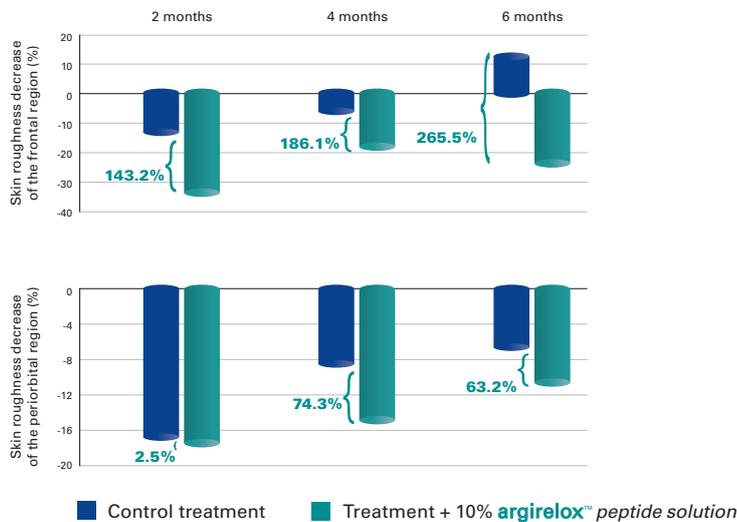
Higher inhibitory potential of glutamate release due to the complementary mechanisms of both peptides

In vivo efficacy

ANTI-WRINKLE EFFECT BETWEEN INJECTIONS

After receiving an injection with 50 UI of the BoNT-A in the periorbital and frontal area, 22 female volunteers (average age 51) applied either an active formulation containing 10% argirelox™ peptide solution or a placebo formulation, twice a day for 6 months.

Macroscopic photographs and silicon replicas were obtained, and skin relief was evaluated by confocal profilometry.



argirelox™ peptide improves the anti-wrinkle effect of BoNT-A. More prominent reduction of glabellar lines and crow's feet wrinkles for longer when complementing the injection with the topical cosmetic ingredient.

