

What is the difference between the action of Hexapeptide and DMAE (Dimethylaminoethanol)?

Hexapeptide

Relaxes the muscles, thus indirectly causing a decrease in wrinkle depth.

To create a muscle contraction, the following happens:

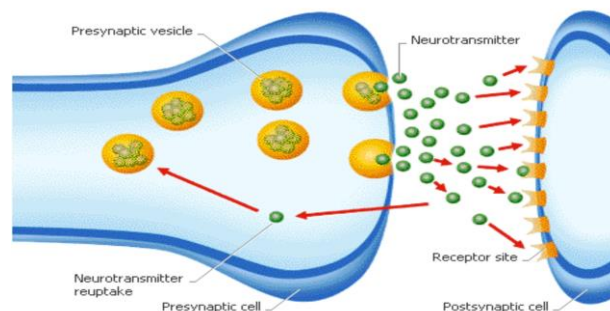
The neurotransmitter is called Acetylcholine, which is stored inside presynaptic vesicles

A nerve impulse reaches the presynaptic cell

Calcium ions diffuse into the presynaptic cell. This causes the vesicles to move to the cell membrane, fuse with it and release Acetylcholine into the synaptic cleft

Acetylcholine binds to receptor proteins on the muscle side of the junction

This causes an impulse in the muscle that travels along the muscle, causing a contraction



The Action of Hexapeptide

- Hexapeptide diminishes or avoids the uptake of Acetylcholine by the receptor
- If the uptake of Acetylcholine is slowed down or avoided by the receptor, the muscle will not contract
- This causes the botox-like effect as it helps to relax the muscles

DMAE (Dimethylaminoethanol)

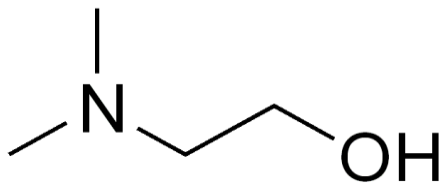
Strengthens cell membranes and creates muscle tightening and contraction.

DMAE is a precursor to Acetylcholine, the neurotransmitter responsible for muscle contraction

Because DMAE is a precursor of Acetylcholine, it has the ability to alter muscle contractions

The benefits of DMAE include anti-inflammatory effects and an increase in skin firmness, with indirect improvement in underlying facial muscle tone

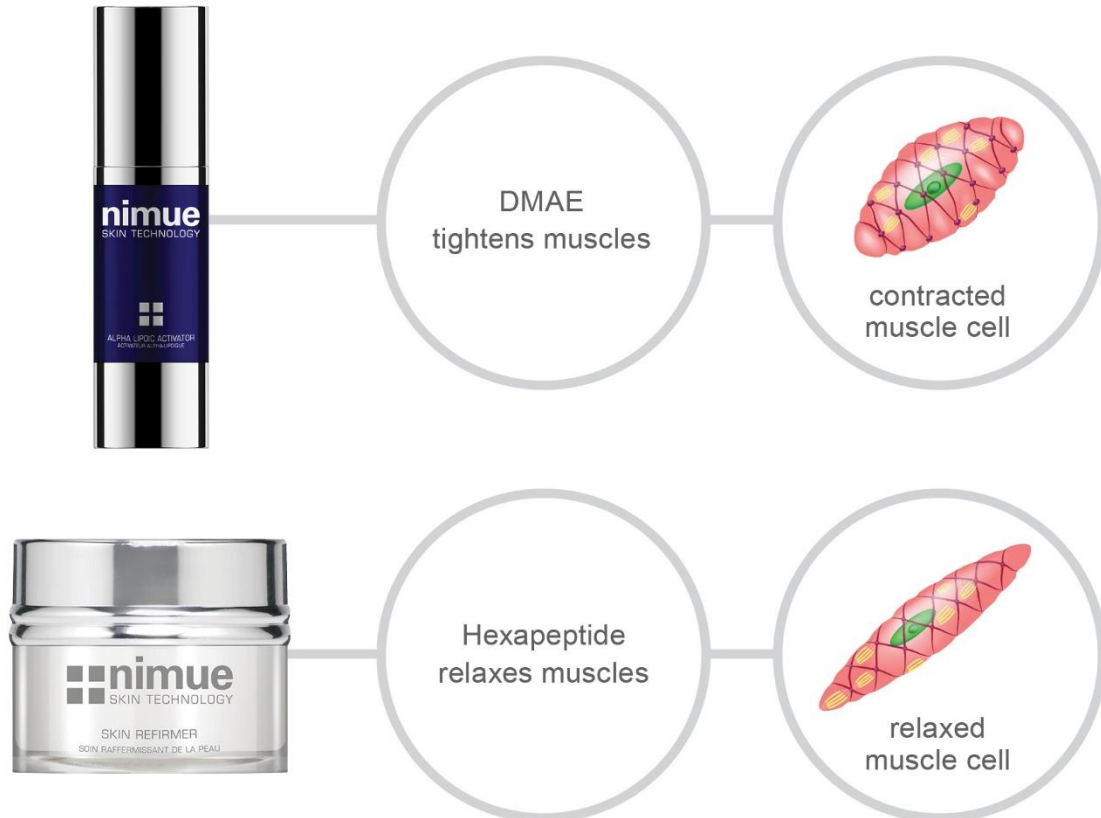
DMAE acts as an antioxidant through stabilizing cell membranes, enabling resistance to stress and prevents the cell membrane from being attacked by free radicals



Molecular structure of DAE is similar to that of Acetylcholine

Hexapeptide and DMAE has opposite effects on muscle tissue and counter-acts their functions. Both are recommended to treat the signs of skin ageing and both work on muscle contractions, just in different and opposite ways. These two ingredients should not be combined in the same application.

DMAE is the main ingredient in **Nimue Alpha Lipoic Activator** and Hexapeptide is found in the **Nimue Skin Refirmer**. These two products should not be applied to the skin at the same time. We suggest using the one in the am and the other as a pm application, to achieve the best results.



DO NOT COMBINE IN THE SAME APPLICATION