

Snap-8

Acetyl Octapeptide-3 | SNARE Complex Modulator | Argireline Extension

COMPOUND OVERVIEW

Snap-8 (Acetyl Octapeptide-3) is a synthetic octapeptide that mimics the N-terminal sequence of SNAP-25, a protein integral to the SNARE complex required for vesicle fusion and neurotransmitter release. It is a structural extension of the hexapeptide Argireline, developed to improve stability and penetration characteristics.

MECHANISM OF ACTION

By competing for SNAP-25 binding sites within the SNARE complex, Snap-8 partially inhibits formation of the ternary SNARE complex required for acetylcholine release at neuromuscular junctions. The result is a moderate reduction in muscle contraction intensity in targeted tissue in studied models.

RESEARCH APPLICATIONS

- SNARE complex inhibition mechanism studies
- Neuromuscular junction acetylcholine release modulation
- Topical delivery and dermal penetration research
- Expression line reduction model studies

EVIDENCE STATUS & KNOWN LIMITATIONS

Evidence Status: Snap-8 evidence is primarily in vitro and small-scale topical application studies. Effect magnitude is substantially lower than botulinum toxin. Large controlled human trials are absent from published literature. Topical bioavailability and true neuromuscular penetration at physiological concentrations remain areas requiring further research.

ANALYTICAL & STORAGE DATA

PURITY	>99.6% by HPLC/MS	PHYSICAL FORM	Lyophilised Powder
STORAGE	2-8 C	CLASS	Acetylated Octapeptide
RECONSTITUTION	Bacteriostatic Water (USP)	BATCH DOCS	Available on Request

RECONSTITUTION NOTE

Introduce reconstitution solvent against the vial wall. Allow complete dissolution at rest. Solution should be clear and colourless. Refrigerate post-reconstitution.

REGULATORY CLASSIFICATION: All BioUnfolding compounds are strictly intended for laboratory evaluation and in-vitro analysis. These materials are not intended for human consumption, veterinary use, or therapeutic application. Researchers are solely responsible for compliance with applicable local regulations including SAHPRA guidelines.

REQUEST BATCH DOCUMENTATION

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