

# Selank

Tuftsins Analog Heptapeptide | Anxiolytic | Enkephalin Protector

## COMPOUND OVERVIEW

Selank is a synthetic heptapeptide analog of the immunomodulatory tetrapeptide Tuftsins, with a stabilising peptide extension. Like Semax, it was developed in Russia and has regulatory status there as a pharmaceutical for anxiety disorders. It is noted for anxiolytic activity without sedation in studied populations.

## MECHANISM OF ACTION

Selank modulates the metabolism of monoamine neurotransmitters including serotonin and dopamine, and inhibits enkephalin-degrading enzymes, increasing the duration of endogenous opioid peptide activity. It also modulates Interleukin-6 expression, suggesting an immune-brain axis component. Proposed GABAergic interaction has not been fully characterised.

## RESEARCH APPLICATIONS

- Anxiolytic mechanism research without sedative pathway involvement
- Enkephalin metabolism and endogenous opioid system research
- Monoamine neurotransmitter modulation studies
- Immune-brain axis and IL-6 modulation research

## EVIDENCE STATUS & KNOWN LIMITATIONS

**Evidence Status:** Selank is registered and clinically used in Russia, with limited Western independent RCT data. Anxiolytic effects are supported by available trial data but the evidence base is narrower than established pharmaceutical anxiolytics. GABAergic interaction mechanisms remain under active investigation.

## ANALYTICAL & STORAGE DATA

PURITY	>99.7% by HPLC/MS	PHYSICAL FORM	Lyophilised Powder
STORAGE	2-8 C. UV sensitive.	CLASS	Tuftsins Analog Heptapeptide
RECONSTITUTION	Bacteriostatic Water (USP)	BATCH DOCS	Available on Request

## RECONSTITUTION NOTE

Introduce reconstitution solvent gently against the vial wall. Allow complete dissolution without agitation. Protect from UV exposure. Refrigerate immediately 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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