



## Semax 15mg/Selank 15mg

### About

Selank and Semax Nasal Spray is a nootropic blend being studied for its potential to support cognitive function, emotional balance, and stress resilience. Together, these peptides are being explored for their effects on neurotransmitter regulation, BDNF expression, and overall brain health—factors linked to focus, mood, and neurological performance.

\*These products are for research use only and are not intended for human consumption, medical use, therapeutic use, or diagnostic purposes. They are not to be used in foods, drugs, cosmetics, dietary supplements, or any products intended for humans or animals. Peptides are not sterile, have not been tested for safety or efficacy in humans, and must not be injected, ingested, inhaled, applied to the skin, or administered in any form. No product sold is intended to treat, cure, mitigate, or prevent any disease.

## What's Included

- One spray bottle
- Concentration: 15mg/15mg/15mL
- Bottle duration varies based on use

### Clinical Research Potential Benefits:

- May help promote focus, clarity, and cognitive performance
- May support mood stability and stress regulation
- May aid in neuroprotection and recovery from mental fatigue
- May promote balanced neurotransmitter activity
- May support long-term brain health and adaptability

### Clinical Research Suggested Use:

- 93mcg per spray each (200-400mcg daily)
  - 1-2 sprays each nostril in the AM
  - 5 days on, 2 consecutive days off for 4 weeks per cycle
- Duration: 2-3 months



## Nasal Spray Guidelines

### Before Use:

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- For first-time use: Prime the spray by pressing the pump 2 to 3 times until it fully activates
- Gently blow your nose to clear the nasal passages
- Shake the bottle lightly
- Insert the nozzle toward the back of the nostril while keeping your head upright
- Press the pump to administer the recommended number of sprays

### After Use:

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- Try to avoid blowing your nose right away
- Wipe the spray tip with a clean tissue
- Replace the cap securely
- Store in the refrigerator



## Semax 15mg/Selank 15mg Mechanism of Action

### Semax:

- **Stimulation of Neurotrophic Factors and Synaptic Plasticity:**
  - Semax enhances brain health and cognitive performance by stimulating the expression of brain-derived neurotrophic factor (BDNF), a key protein involved in neurogenesis, neuronal survival, and synaptic plasticity. Increased BDNF activity supports memory consolidation, learning capacity, and adaptive neural function under stress or fatigue.
- **Dopamine and Serotonin Modulation:**
  - Semax modulates the activity of dopaminergic and serotonergic neurotransmission—two systems essential for focus, motivation, and mood stability. By improving the bioavailability and receptor sensitivity of dopamine and serotonin, Semax promotes mental clarity, sustained attention, and emotional balance.
- **Neuroprotective and Antioxidant Effects:**
  - Semax provides direct neuroprotection through its antioxidant and anti-inflammatory actions. It mitigates oxidative stress, reduces neuroinflammation, and helps preserve neuronal membrane integrity, thereby preventing cellular damage associated with cognitive decline and neurodegenerative processes.
- **Enhanced Cerebral Circulation and Oxygenation:**
  - The peptide improves cerebral blood flow, facilitating greater oxygen and nutrient delivery to brain tissues. This vascular effect supports both acute recovery (e.g., post-ischemic or traumatic injury) and long-term brain performance, enhancing resilience to mental and physical fatigue.
- **Regulation of Stress Response and HPA Axis:**
  - Semax modulates the hypothalamic-pituitary-adrenal (HPA) axis, optimizing the body's response to stress and reducing cortisol overactivation. This regulatory effect enhances mental resilience, anxiety control, and neuroendocrine stability under both cognitive and emotional stressors.
- **Cognitive and Systemic Impact:**
  - By integrating neurotrophic stimulation, monoamine modulation, and vascular optimization, Semax enhances memory, focus, and stress tolerance. These effects make it a powerful nootropic and neuroprotective compound for cognitive enhancement, recovery, and long-term brain health.



## semax 15mg/selank 15mg Mechanism of Action

### Selank:

- **Anxiolytic and Stress-Reducing Effects:**
  - Selank is a synthetic heptapeptide derived from tuftsin, an endogenous immunomodulatory peptide. It exerts potent anxiolytic effects primarily through modulation of the GABAergic system, enhancing GABA-A receptor activity to promote relaxation and reduce anxiety without sedative side effects. Selank also increases serotonin and dopamine levels in key brain regions, contributing to mood stabilization, improved emotional balance, and overall sense of well-being.
- **Cortisol and Stress Hormone Regulation:**
  - By downregulating corticotropin-releasing hormone (CRH) and reducing cortisol secretion, Selank attenuates the physiological stress response mediated by the hypothalamic-pituitary-adrenal (HPA) axis. This effect helps counteract chronic stress, anxiety, and stress-induced fatigue.
- **Cognitive Enhancement and Neuroplasticity:**
  - Selank enhances cognitive performance by increasing the expression of brain-derived neurotrophic factor (BDNF), a critical protein involved in neurogenesis, synaptic plasticity, and memory formation. It also optimizes dopaminergic and noradrenergic signaling, supporting improved focus, learning, and mental clarity.
- **Neuroprotection and Antioxidant Effects:**
  - Through its influence on neurotrophic and neurotransmitter pathways, Selank enhances neuronal resilience to oxidative stress and inflammatory injury. These neuroprotective actions may help preserve brain function and delay cognitive decline under conditions of stress or aging.
- **Immune and Anti-Inflammatory Modulation:**
  - Selank exhibits mild immunoregulatory effects, modulating cytokine production and reducing neuroinflammation that contributes to stress-related or inflammatory cognitive dysfunction. By restoring immune balance and reducing systemic inflammation, it supports both neurological and overall physiologic homeostasis.
- **Systemic Impact:**
  - Through the integration of GABAergic modulation, neurotransmitter balance, and anti-inflammatory effects, Selank provides a multifaceted approach to improving mood, cognition, and stress resilience, supporting emotional stability and brain health.