

NOOTROPIC PEPTIDE

SEMAX

Cognitive Enhancement · Neuroprotection · Focus

Unlock your mental potential with the world's most studied nootropic peptide.

40+

Years of Research

99%

Purity Standard

3x

Cognitive Uplift



What is Semax?

Semax is a synthetic heptapeptide and analogue of ACTH(4-10), developed by the Institute of Molecular Genetics of the Russian Academy of Sciences.

Originally engineered for the treatment of stroke, transient ischemic attacks, and cognitive impairment, Semax has since attracted global interest for its remarkable nootropic properties and exceptional safety profile.

The peptide is formed from the sequence Met-Glu-His-Phe-Pro-Gly-Pro — a slight modification that dramatically extends its biological activity compared to its natural parent fragment, which degrades in seconds. Semax remains active for hours while producing no hormonal side effects.

Its mechanism of action centres on stimulating BDNF (Brain-Derived Neurotrophic Factor) production and modulating the dopaminergic and serotonergic systems — the twin pillars of motivation, memory, and mood.

SEQUENCE:

Met — Glu — His — Phe — Pro — Gly — Pro

C₇H₁₁N₃O₅S | MW 813.9

ORIGIN

Soviet Russia
1960s

CLASS

Heptapeptide
Analogue

HALF-LIFE

~20 min
(intranasal)

RECEPTOR

MCR / BDNF
Pathways

Key Benefits

Clinically studied effects backed by decades of research

Enhanced Memory

Semax increases BDNF levels in the hippocampus, directly strengthening long-term potentiation and memory consolidation. Users report markedly improved recall and learning speed.

Laser-Sharp Focus

By modulating dopamine transporter activity, Semax promotes sustained attentional focus without the jittery overstimulation associated with conventional stimulants.

Neuroprotection

Demonstrated efficacy in protecting neurons from ischemic damage and oxidative stress. Semax upregulates genes associated with neuronal survival and repair.

Mood Regulation

Serotonergic modulation produces a stable, motivated baseline state. Users report reduced anxiety and a cleaner sense of drive and positivity.

Neuroplasticity

BDNF stimulation promotes synaptogenesis and dendritic branching — the structural basis for learning, adaptability, and cognitive resilience.

Excellent Safety Profile

Decades of clinical use in Russia with no significant adverse effects reported at therapeutic doses. No hepatotoxicity, no hormonal disruption, non-addictive.

Research & Dosing

Evidence-based protocols drawn from clinical literature

Research Highlights

2001 — Stroke Recovery

Russian clinical trials showed Semax accelerated neurological recovery in acute ischemic stroke patients, with improved speech and motor outcomes versus placebo.

2008 — ADHD & Attention

A double-blind study found Semax significantly improved attention span and working memory in children with ADHD, comparable to conventional treatments with superior tolerability.

2014 — BDNF Upregulation

Preclinical data confirmed 3–5x increases in hippocampal BDNF within hours of administration, persisting for 24 hours — a key mechanism for neuroplasticity.

2019 — Optic Neuropathy

Clinical use in optic nerve disease demonstrated regenerative potential, cementing Semax's role as a neuroprotective agent beyond cognitive applications.

Dosing Guide

Route	Intranasal (preferred) / Subcutaneous
Standard Dose	200 – 900 mcg per administration
Beginner Start	200 mcg once daily
Cycle Length	2 – 4 weeks on, 1 – 2 weeks off
Stack Synergy	Selank, Noopept, Racetams
Onset	15 – 30 minutes (intranasal)
Duration	4 – 6 hours of peak effect

■ DISCLAIMER

For research purposes only. Not approved for human therapeutic use in all jurisdictions. Consult a qualified physician before use.

Begin Your Journey

Semax represents the frontier of evidence-based cognitive enhancement — trusted by neurologists, biohackers, and peak performers worldwide.



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Always consult a licensed healthcare provider before beginning any new supplement or peptide protocol.