

KAIA PEPTIDES — PRODUCT SHEET

Semax (10mg)

Cognitive Support Peptide – Focus, Mood, Memory & Neuroprotection

What It Is

Semax is a synthetic peptide developed from a segment of ACTH (adrenocorticotrophic hormone) but *without* hormonal activity. It is widely researched for supporting cognitive function, memory, neuroprotection, mood balance, and brain-derived neurotrophic factor (BDNF) pathways.

It is often studied in models involving stress, cognitive fatigue, learning performance, and neurochemical balance.

Understanding Semax — A Metaphorical Story

Imagine your brain as a massive library with billions of books.

Every book is a memory, a skill, a piece of knowledge, or a decision waiting to be made.

But in this library:

- Some librarians are tired
- The sorting machines are slow
- Books pile up on carts
- New information gets misplaced
- The lighting flickers under stress

Now imagine a new specialist walks in.

A librarian unlike any other.

That specialist is Semax.

Here's what Semax does inside the “library” of your brain:

• It turns on the lights (increases BDNF activity)

BDNF is like the electrical system of the library — the brighter it is, the faster the librarians work.

Semax helps switch on these “lights,” making everything clearer, sharper, and faster.

• It organizes the shelves (supports memory formation)

Semax improves the ability of librarians to:

- File memories correctly
 - Retrieve information quickly
 - Reduce misplaced data
 - Keep the system organized even under pressure
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• It speeds up the sorting machine (supports cognitive processing)

Your mental “conveyor belts” — attention, focus, and mental speed — run faster and smoother with less effort.

• It brings calm to the library (supports mood & stress pathways)

When the library gets overwhelmed during stress:

- Books spill
- Files get mixed
- Decisions slow

Semax helps calm the chaos and keeps everything flowing smoothly.

• It protects rare books (neuroprotection)

Some books are fragile — long-term memories, emotional stability, creativity.

Semax adds protective casing around these, keeping them safe from stress, inflammation, and oxidative wear.

The Result

A brain that:

- Thinks faster
- Remembers better
- Stays calmer
- Adapts under pressure
- Organizes information more efficiently

This is the simplest way to visualize Semax's cognitive and neuroprotective support in research models.

Primary Research Benefits

(Summarized from published scientific literature)

• Cognitive Performance

- Supports attention, processing speed, and mental clarity
- May improve working memory and learning ability

• Neuroprotection

- Helps reduce oxidative and inflammatory stress
- Supports neuronal survival pathways
- Increases BDNF expression in several models

• Mood & Stress Support

- May balance brain chemistry under stressful conditions
- Shown to support emotional regulation in research

• Circulation & Oxygen Utilization

- May improve blood flow in select brain regions
 - Supports oxygenation during high cognitive load
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Common Research Use Cases

- Memory & learning research
 - Focus, attention, and cognitive performance models
 - Stress resilience and mood regulation studies
 - BDNF pathway activation research
 - Neuroprotective mechanism exploration
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Typical Research Protocols (Literature-Based)

(For educational/reference purposes; not medical advice)

- **Duration:** 10–30 days
 - **Frequency:** 1–2× daily depending on the model
 - **Administration Routes in Studies:** Intranasal or subcutaneous
 - **Vial:** 10mg lyophilized peptide
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Storage & Stability

- Store lyophilized at **2–8°C**
 - Refrigerate after reconstitution; use within **30 days**
 - Keep away from direct heat and light
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Safety Profile (Research-Based Notes)

- Non-stimulatory
 - Not a hormone
 - Generally well tolerated in cognitive research
 - No significant toxicity observed in available data
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Format

- **10mg lyophilized powder**
 - Research Use Only
 - Purity: **≥99%** (verified by third-party analysis)
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Legal & Compliance

For Research Use Only. Not for human consumption.

Not approved by the FDA to diagnose, treat, cure, or prevent any disease.

Brand Finishing (Kaia Style)

Sharper thinking. Calmer pathways.

Built for researchers exploring cognitive performance.