



**Semax** is a nootropic peptide that affects the learning processes and exploratory behavior. It also influences neurological regeneration and development, pain perception and inflammation.

It is known that ACTH/MSH-like peptides (melanocortins) exert pleiotropic non-hormonal actions among their larger activities. Melanocortins affect learning processes and exploratory behavior, regeneration and development, nociceptive and inflammatory processes, accelerate nerve regeneration and improve neuromuscular performance. Together these classes of peptides control many behaviors such as regulating attention, processes of learning, and memory formation as a result of their pronounced effect on CNS functions.

**Semax** is the analog of ACTH (4-10) that has prolonged neurotropic activity and thus is a good candidate for medical therapy. Currently, this peptide is successfully used in the treatment of patients with pathologies related to brain circulation dysfunction and with different intellectual-amnestic problems of the CNS. Doctors have prescribed it for many conditions like anxiety, memory improvement, ischemic events, stroke, nerve regeneration, ADHD, opioid withdrawal, and even chronic diseases such as ALS, Parkinson's, and Alzheimer's. Some doctors use it as a preventative measure to protect against chronic disease and to acutely help improve memory and learning processes. It also has a marked antithrombotic and fibrinolytic effect and a gastric protective effect. It has also been suggested in the literature that due to its effect on carboxypeptidase it can also increase physical performance and adaptation capacities in exposure to high-intensity exercise.

Semax is often prescribed for Anti-Thrombosis, ADHD/Learning, Gastric protection, Physical exertion improvement pain and Metal toxicities.

