

SEMAX

NEUROPEPTIDE

MOLECULAR FORMULA $C_{37}H_{51}N_9O_{10}S$

MOLECULAR WEIGHT 813.92 g/mol

SEQUENCE Met-Glu-His-Phe-Pro-Gly-Pro

PROTOCOL



CONTENT & POTENCY

1 mg/mL subcutaneous injection provided in a 5 mL Vial.



SUGGESTED DOSAGE

Inject 0.3-1 mL subcutaneously twice per week, depending on patient response.

Often prescribed for: Anti-Thrombosis, ADHD/Learning, Gastric protection, Physical exertion improvement pain, Metal toxicities.

DESCRIPTION

Heptapeptide SEMAX (MEHFPGP) is the analogue of ACTH (4-10) that has a demonstrated prolonged neurotropic activity. This has historically been used in patients with pathologies related to brain circulation dysfunction. It has also been suggested in literature that due to its effect on carboxypeptidase it may also increase physical performance and adaptation capacities in exposure to high intensity exercise and at higher doses, >0.5 mg/kg, may exhibit analgesic like effects.

CLINICAL RESEARCH



Manchenko DM, Glazova Nlu, Levitskaia NG, et. al.

Nootropic and Analgesic Effects of Semax Following Different Routes of Administration. *Russ Fiziol Zh Im I M Sechenova*. 2010 Oct; 96(10):1014-23.



The heptapeptide Semax (MEHFPGP) is an analog of the fragment ACTH(4-10) with long-lasting actions. The aim of the present work was to study the effects of Semax on learning ability and pain sensitivity in white rats given different doses via the intraperitoneal and intranasal routes. The nootropic effects of Semax were studied in a test based on the acquisition of a conditioned passive avoidance reaction to pain stimulation. Pain sensitivity was assessed in a hindpaw compression test. The results showed that i.p. Semax had nootropic and analgesic actions. Dose-response characteristics were different for these different effects. Intranasal Semax was more effective in improving learning in animals than i.p. Semax but had no effect on pain sensitivity. Our results provide evidence that different mechanisms and brain structures are involved in mediating the nootropic and analgesic effects of Semax.

"This statement has not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure, or prevent any disease."



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