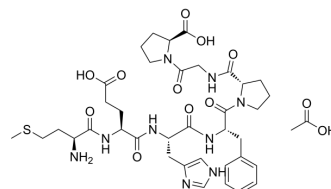


Semax acetate

Cat. No.:	HY-P1146A
CAS No.:	2828433-33-4
Molecular Formula:	C ₃₉ H ₅₅ N ₉ O ₁₂ S
Molecular Weight:	873.97
Sequence:	Met-Glu-His-Phe-Pro-Gly-Pro
Sequence Shortening:	MEHFPGP
Target:	Others
Pathway:	Others
Storage:	Sealed storage, away from moisture and light
	Powder -80°C 2 years
	-20°C 1 year



* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)

SOLVENT & SOLUBILITY

In Vitro

DMSO : 150 mg/mL (171.63 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.1442 mL	5.7210 mL	11.4420 mL
5 mM	0.2288 mL	1.1442 mL	2.2884 mL
10 mM	0.1144 mL	0.5721 mL	1.1442 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Semax acetate is a nootropic neuroprotective peptide. Semax acetate can be used in the research of brain stroke^[1].

REFERENCES

- [1]. Medvedeva EV, et al. The peptide semax affects the expression of genes related to the immune and vascular systems in rat brain focal ischemia: genome-wide transcriptional analysis. *BMC Genomics*. 2014 Mar 24;15:228.
- [2]. Shadrina MI, et al. Rapid induction of neurotrophin mRNAs in rat glial cell cultures by Semax, an adrenocorticotrophic hormone analog. *Neurosci Lett*. 2001 Aug 3;308(2):115-8.
- [3]. Grivennikov IA, et al. Effects of behaviorally active ACTH (4-10) analogue - Semax on rat basal forebrain cholinergic neurons. *Restor Neurol Neurosci*. 2008;26(1):35-43.

[4]. Sciacca MFM, et al. Semax, a Synthetic Regulatory Peptide, Affects Copper-Induced Abeta Aggregation and Amyloid Formation in Artificial Membrane Models. ACS Chem Neurosci. 2022 Feb 16;13(4):486-496.

Caution: Product has not been fully validated for medical applications. For research use only.

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