

Semax

Chemical Properties

CAS No.:	80714-61-0
Formula:	C37H51N9O10S
Molecular Weight:	813.93
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Semax is a synthetic peptide analog of adrenocorticotrophic hormone (ACTH) that has neuroprotective, analgesic, and anxiolytic properties.
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Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.229 mL	6.143 mL	12.286 mL
5 mM	0.246 mL	1.229 mL	2.457 mL
10 mM	0.123 mL	0.614 mL	1.229 mL
50 mM	0.025 mL	0.123 mL	0.246 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Bashkatova, V.G., Koshelev, V.B., Fadyukova, O.E., et al. Novel synthetic analogue of ACTH 4-10 (Semax) but not glycine prevents the enhanced nitric oxide generation in cerebral cortex of rats with incomplete global ischemia. *Brain Res.* 894(1), 145-149 (2001).
2. Ivanova, D.M., Levitskaya, N.G., Andreeva, L.A., et al. Comparative study of analgesic potency of ACTH4-10 fragment and its analog semax. *Bull. Exp. Biol. Med.* 143(1), 5-8 (2007).
3. Volodina, M.A., Sebentsova, E.A., Glazova, N.Y., et al. Semax attenuates the influence of neonatal maternal deprivation on the behavior of adolescent white rats. *Bull. Exp. Biol. Med.* 152(5), 560-563 (2012).

Inhibitors · Natural Compounds · Compound Libraries

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