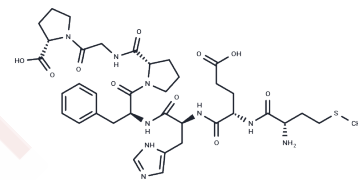


Semax

Chemical Properties

CAS No. :	80714-61-0
Formula:	C37H51N9O10S
Molecular Weight:	813.93
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



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	1.2286 mL	6.143 mL	12.2861 mL
5 mM	0.2457 mL	1.2286 mL	2.4572 mL
10 mM	0.1229 mL	0.6143 mL	1.2286 mL
50 mM	0.0246 mL	0.1229 mL	0.2457 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- 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).
- 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).
- 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).

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481