

Semax acetate(80714-61-0 free base)

Chemical Properties

CAS No. : 2828433-33-4

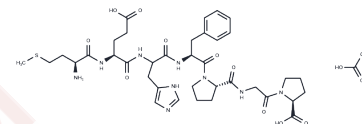
Formula: C39H55N9O12S

Molecular Weight: 873.98

Keep away from moisture

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Semax acetate is a synthetic peptide analog of adrenocorticotrophic hormone (ACTH) that has neuroprotective, analgesic, and anxiolytic properties.
Targets(IC50)	Beta Amyloid,Others

Solubility Information

Solubility	DMSO: 250 mg/mL (286.05 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 10 mg/mL (11.44 mM),Solution. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1442 mL	5.721 mL	11.4419 mL
5 mM	0.2288 mL	1.1442 mL	2.2884 mL
10 mM	0.1144 mL	0.5721 mL	1.1442 mL
50 mM	0.0229 mL	0.1144 mL	0.2288 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., Sebestsova, 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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