

Data Sheet (Cat.No.TP1242)

1-39-Corticotropin (human)(TFA)

Chemical Properties

CAS No.:	TP1242
Formula:	C207H308N56O58S.C2HF3O2
Molecular Weight:	4655.16
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Adrenocorticotrophic Hormone (ACTH) (1-39) human(TFA), a member of the melanocortin family, is a melanocortin receptor agonist. It stimulates production of CS by the adrenals, but melanocortin receptors are also found in the central nervous system (CNS) and on immune cells.
In vitro	Adrenocorticotrophic Hormone (ACTH) (1-39), human (ACTH 1-39), a member of the melanocortin family, stimulates production of CS by the adrels, but melanocortin receptors are also found in the central nervous system (CNS) and on immune cells. ACTH 1-39 protects neurons in vitro from several apoptotic, excitotoxic and inflammation-related insults[1]. The conditioned medium (CM) is prepared from untreated astroglia (AS) cultures and from AS cultures treated with 200 nM ACTH 1-39 for 24 h, washed to remove ACTH 1-39, then incubated for another 24 h in DMEM. In initial experiments, no difference is found in oligodendroglia (OL) viability in the presence of OL definedmediumwith 2% newborn calf serum (NCS) or AS CM (prepared in DMEM with no serum). After 24 h, OL death under each condition varies between 1 and 4%. Similar results for OL viability are obtained with microglia (MG) CM. In subsequent experiments, controls in each experiment consist of OL in defined medium with 2% NCS[2].

Solubility Information

Solubility	H2O: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.215 mL	1.074 mL	2.148 mL
5 mM	0.043 mL	0.215 mL	0.43 mL
10 mM	0.021 mL	0.107 mL	0.215 mL
50 mM	0.004 mL	0.021 mL	0.043 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. Lisak RP, et al. Melanocortin receptor agonist ACTH 1-39 protects rat forebrain neurons from apoptotic, excitotoxic and inflammation-related damage. *Exp Neurol*. 2015 Nov;273:161-7.

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