

## ACTH 11-24

**Chemical Properties**

CAS No.:	4237-93-8
Formula:	C77H134N24O16
Molecular Weight:	1652.04
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	ACTH (11-24) is a fragment of adrenocorticotrophin, induces cortisol release. ACTH (11-24) has been identified as a competitive antagonist of ACTH (1-39) and ACTH (1-10) in isolated adrenal cells.
In vitro	ACTH (11-24) acts as an antagonist of adrenocorticotrophic hormone receptor[1]. ACTH (11-24) induces cortisol secretion submaximally in freshly dispersed or cultured beef adrenal cortical cells. The maximal cortisol release by ACTH (11-24) is enhanced by forskolin but inhibited by calcium channel blockers[2].
In vivo	ACTH (11-24) blocks electroacupuncture (EA) anti-edema but not EA anti-hyperalgesia in rats[1].

**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	0.605 mL	3.027 mL	6.053 mL
5 mM	0.121 mL	0.605 mL	1.211 mL
10 mM	0.061 mL	0.303 mL	0.605 mL
50 mM	0.012 mL	0.061 mL	0.121 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

- Li ZG, et al. Adrenocorticotropin(1-10) and -(11-24) promote adrenal steroidogenesis by different mechanisms. *Endocrinology*. 1989 Aug;125(2):592-6.
- Li A, et al. Electroacupuncture activates corticotrophin-releasing hormone-containing neurons in the paraventricular nucleus of the hypothalamus to alleviate edema in a rat model of inflammation. *BMC Complement Altern Med*. 2008 May 12;8:20.

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