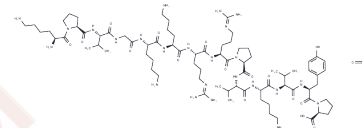


ACTH 11-24 acetate(4237-93-8 free base)

Chemical Properties

CAS No. :	79190-56-0
Formula:	C79H138N24O18
Molecular Weight:	1712.12
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	ACTH 11-24 acetate(4237-93-8 free base) (Adrenocorticotrophic Hormone (11-24) acetate) 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.
Targets(IC50)	Melanocortin Receptor,Endogenous Metabolite
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	DMSO: Insoluble, H2O: 10 mM,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.5841 mL	2.9204 mL	5.8407 mL
5 mM	0.1168 mL	0.5841 mL	1.1681 mL
10 mM	0.0584 mL	0.292 mL	0.5841 mL
50 mM	0.0117 mL	0.0584 mL	0.1168 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

Li ZG, et al. Adrenocorticotropin(1-10) and -(11-24) promote adrenal steroidogenesis by different mechanisms. *Endocrinology*. 1989 Aug;125(2):592-6.

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