ACTH (11-24) (acetate)

Cat. No.: HY-P1558A

Molecular Formula: $C_{79}H_{138}N_{24}O_{18}$

Molecular Weight: 1712.09

Sequence: Lys-Pro-Val-Gly-Lys-Lys-Arg-Arg-Pro-Val-Lys-Val-Tyr-Pro

Sequence Shortening: KPVGKKRRPVKVYP

KPVGKKRRPVKVYP (acetate salt)

Target: Melanocortin Receptor

Pathway: GPCR/G Protein; Neuronal Signaling

Storage: Sealed storage, away from moisture and light, under nitrogen

Powder -80°C 2 years

-20°C 1 year

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light, under nitrogen)

SOLVENT & SOLUBILITY

In Vitro

H_2O : 50 mg/mL (29.20 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	0.5841 mL	2.9204 mL	5.8408 mL
	5 mM	0.1168 mL	0.5841 mL	1.1682 mL
	10 mM	0.0584 mL	0.2920 mL	0.5841 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

ACTH (11-24) (acetate) is an adrenocorticotropic hormone (ACTH) receptor antagonist. ACTH (11-24) is a fragment of adrenocorticotropic and induces cortisol release. ACTH (11-24) can be used for the research of central nervous system[1].

In Vitro

ACTH (11-24) (acetate) elicits cortisol secretion submaximally in freshly dispersed or cultured beef adrenal cortical cells[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

ACTH (11-24) (acetate) has slight influences on circulating plasma corticosterone values and on fighting behavior[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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

[2]. P F Brain, et al. Acute influences of some ACTH-related peptides of fighting and adrenocortical activity in male laboratory mice. Pharmacol Biochem Behav

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA