

ACTH (11-24)

Cat. No.:	HY-P1558
CAS No.:	4237-93-8
Molecular Formula:	C ₇₇ H ₁₃₄ N ₂₄ O ₁₆
Molecular Weight:	1652.04
Sequence:	Lys-Pro-Val-Gly-Lys-Lys-Arg-Arg-Pro-Val-Lys-Val-Tyr-Pro
Sequence Shortening:	KPVGKKRRPVKVYP
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

KPVGKKRRPVKVYP

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

SOLVENT & SOLUBILITY

In Vitro

H₂O : 100 mg/mL (60.53 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent	1 mg	5 mg	10 mg
	Concentration			
	1 mM	0.6053 mL	3.0266 mL	6.0531 mL
	5 mM	0.1211 mL	0.6053 mL	1.2106 mL
	10 mM	0.0605 mL	0.3027 mL	0.6053 mL

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

BIOLOGICAL ACTIVITY

Description

ACTH (11-24) is an adrenocorticotrophic hormone (ACTH) receptor antagonist. ACTH (11-24) is a fragment of adrenocorticotrophic and induces cortisol release. ACTH (11-24) can be used for the research of central nervous system^{[1][2]}.

In Vitro

ACTH (11-24) 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) 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]. P F Brain, et al. Acute influences of some ACTH-related peptides of fighting and adrenocortical activity in male laboratory mice. Pharmacol Biochem Behav

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

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

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