

ACTH (11-24) (acetate)

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

SOLVENT & SOLUBILITY

In Vitro

H₂O : 50 mg/mL (29.20 mM; Need ultrasonic)

| Preparing Stock Solutions | Solvent | Mass | 1 mg | 5 mg | 10 mg |
|---------------------------|---------------|------|-----------|-----------|-----------|
| | Concentration | | | | |
| | 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 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].

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