
Product Data Sheet

Product Name: ACTH 11-24 (Adrenocorticotrophic Hormone (11-24))

Cat. No.: GC31954

Chemical Properties

Cas. No. 4237-93-8

SMILES Lys-Pro-Val-Gly-Lys-Lys-Arg-Arg-Pro-Val-Lys-Val-Tyr-Pro

Formula $C_{77}H_{134}N_{24}O_{16}$ M.Wt 1652.04

Solubility H_2O : 100 mg/mL (60.53 mM;
Need ultrasonic) Storage Store at $-20^{\circ}C$, protect from light,
stored under nitrogen

General tips For obtaining a higher solubility , please warm the tube at $37^{\circ}C$ and shake it
in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ for
several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship
with RT , or blue ice upon request.

Structure

Background

ACTH (11-24) is a fragment of adrenocorticotrophin, acts as an antagonist of adrenocorticotrophic hormone (ACTH) receptor, and induces cortisol release.

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].

ACTH (11-24) blocks electroacupuncture (EA) anti-edema but not EA anti-hyperalgesia in rats[1].

[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]. 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.

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

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