

## Product Data Sheet

Product Name: ACTH 11-24 acetate(4237-93-8 free base)  
 Cat. No.: GC27190

### Chemical Properties

Cas. No. 79190-56-0

SMILES CC([C@H](NC([C@@H]1CCCN1C([C@@H](N)CCCN)=O)=O)C(NCC(N[C@H](C(N[C@H](C(N[C@H](C(N[C@H](C(N2CCC[C@H]2C(N[C@H](C(N3CCC[C@H]3C(O)=O)=O)CC4=CC=C(O)C=C4)=O)C(C)C)=O)CCCN)=O)C(C)C)=O)CCC/N=C(N)\N)=O)CCC/N=C(N)\N)=O)C

Formula C<sub>79</sub>H<sub>138</sub>N<sub>24</sub>O<sub>18</sub>

M.Wt 1712.12

Solubility DMSO: Insoluble; H<sub>2</sub>O: 10 mM, Sonication is recommended.

Storage keep away from light

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored for several months.

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

Structure

### Background

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.

In vitro, ACTH (11-24) acts as an antagonist of adrenocorticotrophic hormone receptor<sup>[1]</sup>. 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<sup>[2]</sup>.

In vivo, ACTH (11-24) blocks electroacupuncture (EA) anti-edema but not EA anti-hyperalgesia in rats<sup>[1]</sup>.

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.

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

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