

# ACTH (Adrenocorticotropic hormone)

**CATALOG #:** 4003-2000 2 mg

**SOURCE:** Synthetic

**SYNONYMS:** Corticotropin-lipotropin, Pro-opiomelanocortin, POMC, ACTH, LPH, MSH, NPP, POC, CLIP, Tetracosactide.

**PURITY:** >98 % by SDS-PAGE and RP-HPLC analyses

**FORM:** Sterile filtered and lyophilized with no additives

**RECONSTITUTION:**

Centrifuge the vial prior to opening. Reconstitute in sterile dW to a concentration  $\geq 100 \mu\text{g/ml}$ . This solution can then be diluted into other aqueous buffers and stored at 4 °C for 2-7 days and at -20 °C for future use.

**STORAGE CONDITIONS:**

The lyophilized protein is best-stored desiccated at -20 °C. Reconstituted Antide should be stored in working aliquots at -20°C. For long term storage it is recommended to add a carrier protein (0.1% HAS or BSA). Prevent freeze/thaw cycles

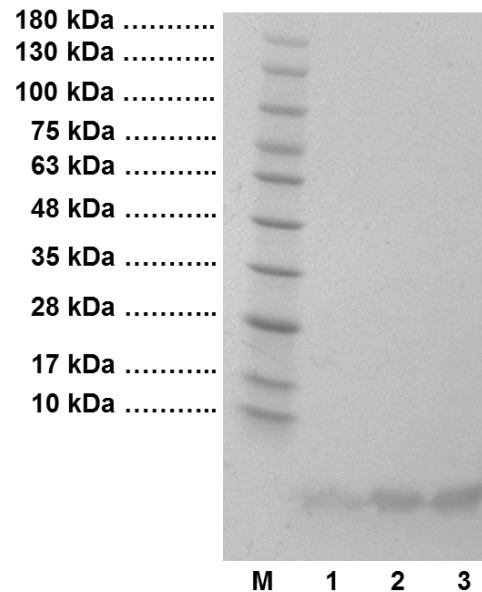
**DESCRIPTION:**

Adrenocorticotropic hormone, as its name implies, stimulates the adrenal cortex. More specifically, it stimulates secretion of glucocorticoids such as cortisol, and has little control over secretion of aldosterone, the other major steroid hormone from the adrenal cortex. Stimulates secretion of adrenal corticosteroids and induces growth of adrenal cortex. ACTH also called Tetracosactide directly activates G-proteins. A stimulator of adenylate cyclase and cAMP formation. Its molecular weight is 2.9335 kDa.

**AMINO ACID SEQUENCE:**

H-Ser-Tyr-Ser-Met-Glu-His-Phe-Arg-Trp-Gly-Lys-Pro-Val-Gly-Lys-Lys-Arg-Arg-Pro-Val-Lys-Val-Tyr-Pro-OH.

**FOR RESEARCH USE ONLY! Not to be used in humans.**



**4-20% SDS-PAGE of ACTH:**

M: Protein Marker  
 1: 10 µg Human ACTH  
 2: 15 µg Human ACTH  
 3: 20 µg Human ACTH

**4-20% SDS-PAGE of ACTH:** 10, 15 and 20 ug of ACTH loaded in each lane under reducing conditions in a 4-20% Tris-Glycine gel and stained with Coomassie Blue. ACTH has a predicted MW of ~ 2.9 kDa.

**RELATED PRODUCTS:**

- Adrenocorticotropic Hormone (ACTH) (human) ELISA Kit (Cat. No. K4003-100)

