

## **ACTH [18-39] Peptide**

**Subcategory:** Synthetic Peptide

**Cat. No.:** 350027

**Unit:** 1 mg

**Description:**

Adrenocorticotrophic hormone (ACTH), also known as corticotropin, is produced and secreted by the anterior pituitary gland. ACTH is an important component of the hypothalamic-pituitary-adrenal axis as a response to biological stress. ACTH secretion is triggered by the corticotropin-releasing hormone (CRH) released from the hypothalamus, and stimulates the adrenal glands to release corticosteroids such as cortisol. ACTH [1-39] corresponds to full-length ACTH. ACTH [1-24] is conserved across species and is 75% as potent as ACTH. ACTH [1-10] has no ACTH activity but alter blood pressure. ACTH [4-10] has neurological effects.

**Format:** Each vial contains 1 mg of lyophilized solid packaged under an inert gas and supplied as a trifluoroacetate salt.

**Alternate Names:** Adrenocorticotrophic hormone; ACTH; corticotropin

**Accession No.:** P01189

**MW:** 2465.72 g/mol

**Sequence:** Human: H-Arg-Pro-Val-Lys-Val-Tyr-Pro-Asn-Gly-Ala-Glu-Asp-Glu-Ser-Ala-Glu-Ala-Phe-Pro-Leu-Glu-Phe-OH or H-RPVKVYPNGAEDESAAEAFPLEF-OH

**Composition:** C<sub>112</sub>H<sub>165</sub>N<sub>27</sub>O<sub>36</sub>

**Purity:** Purity > 95% by HPLC

**Solubility:** Distilled water for a solution up to 2 mg/ml, otherwise we recommend using acetonitrile.

**Storage:** Store at -20°C. The product is hygroscopic and must be protected from light. Product is guaranteed one year from the date of shipment. Following reconstitution, aliquot and store at -20°C.

For research use only, not for diagnostic or therapeutic procedures.