

POMC

Synthetic Human ACTH/Adrenocorticotrophic Hormone

Catalog No.	CRA108A	Quantity:	2 mg
	CRA108B		10 mg
	CRA108C		50 mg

Alternate Names: Corticotropin, cleaved from Pro-opiomelanocortin

Description: Adrenocorticotrophic 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. It stimulates secretion of adrenal corticosteroids, induces growth of the adrenal cortex, and directly activates G-proteins. It is a stimulator of adenylate cyclase and cAMP formation.

Gene ID: 5443

UniProt ID: P01189

Molecular Formula: $C_{136}H_{210}N_{40}O_{31}S$

Molecular Weight: 2933.5 Dalton

Source: Synthetic

Formulation: Lyophilized from a sterile filtered solution with no additives.

Purity: >98% by RP-HPLC and SDS-PAGE.

Amino Acid Sequence: SYSMEHFRWGKPVGKKRRPVKVYP

Reconstitution: **Do not open vial until reconstituted.** Inject sterile distilled water at not less than 100 µg/mL, which can then be further diluted to other aqueous solutions.

Storage & Stability: Upon receipt, store at -20°C to -80°C. Upon reconstitution, store at 2-8°C for up to a week. For long term storage add a carrier protein (0.1% HSA or BSA), and store aliquots at -20°C to -80°C. **Avoid repeated freeze-thaw cycles.**

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.