



Product Information

**Product ID** A0961  
**CAS No.** 77465-10-2  
**Chemical Name**  
  
**Synonym** ACTH  
  
**Formula**  $C_{210}H_{315}N_{57}O_{57}S$   
**Formula Wt.** 4582.23  
**Melting Point**  
**Purity** ≥95%  
**Solubility** Soluble in water.

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-Asn-Val-Ala-Glu-Asn-Glu-Ser-Ala-Glu-Ala-Phe-Pro-Leu-Glu-Phe-OH

**Bulk quantities available upon request**

Product ID	Size
A0961	0.5 mg
A0961	1 mg
A0961	2.5 mg

**Store Temp** -20° C  
**Ship Temp** Ambient

**Description** Adrenocorticotropin hormone (ACTH) is a peptide derived from proopiomelanocortin (POMC) processed and secreted in the pituitary gland. ACTH binds and activates melanocortin-2 (MC2) receptors, stimulating cortisol production in the adrenal cortex. ACTH exhibits anti-inflammatory and immunomodulatory activities. ACTH decreases inflammatory cytokine levels and modulates lymphocyte and macrophage functions. In vitro, ACTH stimulates proliferation of osteoblasts and increases mRNA levels of collagen I.

**References** Berkovich R, Agius MA. Mechanisms of action of ACTH in the management of relapsing forms of multiple sclerosis. Ther Adv Neurol Disord. 2014 Mar;7(2):83-96. PMID: 24587825.

Isales CM, Zaidi M, Blair HC. ACTH is a novel regulator of bone mass. Ann N Y Acad Sci. 2010 Mar;1192:110-6. PMID: 20392225.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.