



LKT Laboratories, Inc.

# Adrenocorticotrophic Hormone (1-14)

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## Product Information

**Product ID** A0965

**CAS No.** 25696-21-3

**Chemical Name**

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

**Synonym** ACTH (1-14)

**Formula**  $C_{77}H_{110}N_{21}O_{28}S$

**Formula Wt.** 1680.91

**Melting Point**

**Purity**  $\geq 95\%$

**Solubility** Soluble in water.

**Product ID** **Size**

A0965 1 mg

A0965 2 mg

A0965 5 mg

**Store Temp**  $-20^{\circ}\text{C}$

**Ship Temp** Ambient

**Description** Adrenocorticotrophic 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.