



**LKT Laboratories, Inc.**

**Adrenocorticotrophic Hormone (1-24), human**

Phone: 888-558-5227

651-644-8424

Fax: 888-558-7329

Email: [sales@lktlabs.com](mailto:sales@lktlabs.com)

## Product Information

**Product ID** A0968

**CAS No.** 16960-16-0

**Chemical Name**

**Synonym** ACTH; Cosyntropin; Cortrosyn; Tetracosactide

**Formula**  $C_{152}H_{210}N_{42}O_{31}S$

**Formula Wt.** 2933.49

**Melting Point**

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

**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-OH

**Bulk quantities available upon request**

Product ID	Size
A0968	0.5 mg
A0968	1 mg
A0968	2.5 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.