



LKT Laboratories, Inc.

Adrenocorticotrophic Hormone (4-10), human

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## Product Information

Product ID A0971

CAS No. 4037-01-8

**Chemical Name**

Synonym ACTH

Formula  $C_{44}H_{59}N_{13}O_{10}S$

Formula Wt. 962.1

**Melting Point**

Purity  $\geq 95\%$

Solubility Soluble in water.

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

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.

H-Met-Glu-His-Phe-Arg-Trp-Gly-OH

## Pricing and Availability

*Bulk quantities available upon request*

Product ID	Size	List Price
A0971	1 mg	\$63.00
A0971	2 mg	\$107.00
A0971	5 mg	\$189.00

**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.