



LKT Laboratories, Inc.

Adrenocorticotrophic Hormone (1-10), human

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Product Information

Product ID A0963

CAS No. 2791-05-1

Chemical Name

Synonym ACTH

Formula $C_{59}H_{78}N_{16}O_{16}S$

Formula Wt. 1299.4

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-Ser-Tyr-Ser-Met-Glu-His-Phe-Arg-Trp-Gly-OH

Bulk quantities available upon request

Product ID	Size
A0963	1 mg
A0963	2 mg
A0963	5 mg

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.