



LKT Laboratories, Inc.

Adrenocorticotrophic Hormone (1-39), human

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Product Information

Product ID A0960

CAS No. 12279-41-3

Chemical Name

Synonym ACTH

Formula $C_{39}H_{55}N_{13}O_{16}S$

Formula Wt. 4541.1

Melting Point

Purity $\geq 95\%$

Solubility Soluble in water (1 mg/mL).

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-Gly-Ala-Glu-Asp-Glu-Ser-Ala-Glu-Ala-Phe-Pro-Leu-Glu-Phe-OH

Bulk quantities available upon request

Product ID **Size**

A0960 1 mg

Store Temp -20°C

Ship Temp Ambient

Description Adrenocorticotrophic hormone (ACTH) is an endogenous 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.