

Recombinant Human Proopiomelanocortin

Cat. No. POMC-339H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	Synthetic
Description	Adrenocorticotrophic hormone, as its name implies, stimulates the adrenal cortex. More specifically, it stimulates secretion of glucocorticoids such as cortisol, and has little control over secretion of aldosterone, the other major steroid hormone from the adrenal cortex. Stimulates secretion of adrenal corticosteroids and induces growth of adrenal cortex. ACTH also called Tetracosactide directly activates G-proteins. A stimulator of adenylate cyclase and cAMP formation. Its molecular weight is 4.541 kDa.
Form	Sterile filtered and lyophilized with no additives.
Molecular Mass	4.541 kDa
AA Sequence	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
Purity	≥98% by SDS-PAGE and HPLC analyses.
Reconstitution	Centrifuge the vial prior to opening. Reconstitute in sterile dW to a concentration ≥ 100 µg/ml. This solution can then be diluted into other aqueous buffers and stored at 4 °C for

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2-7 days and at -20 °C for future use.

GENE INFORMATION

Gene Name	POMC proopiomelanocortin [Homo sapiens]
Official Symbol	POMC
Synonyms	POMC; proopiomelanocortin; pro-opiomelanocortin; ACTH; adrenocorticotrophic hormone; adrenocorticotropin; alpha melanocyte stimulating hormone; beta endorphin; beta lipotropin; beta melanocyte stimulating hormone; CLIP; LPH; MSH; NPP; POC; beta-LPH; beta-MSH; alpha-MSH; gamma-LPH; gamma-MSH; beta-endorphin; met-enkephalin; lipotropin beta; lipotropin gamma; melanotropin beta; melanotropin alpha; melanotropin gamma; pro-ACTH-endorphin; corticotropin-lipotropin; proopiomelanocortin preproprotein; beta-melanocyte-stimulating hormone; alpha-melanocyte-stimulating hormone; corticotropin-like intermediary peptide;
Gene ID	5443
mRNA Refseq	NM_000939
Protein Refseq	NP_000930
MIM	176830
UniProt ID	P01189
Chromosome Location	2p23
Pathway	Adipocytokine signaling pathway, organism-specific biosystem; Adipocytokine

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signaling pathway, conserved biosystem; Androgen biosynthesis, organism-specific biosystem; Biological oxidations, organism-specific biosystem; Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; Cytochrome P450 - arranged by substrate type, organism-specific biosystem; Endogenous sterols, organism-specific biosystem;

Function

G-protein coupled receptor binding; hormone activity; hormone activity; receptor binding; type 1 melanocortin receptor binding; type 1 melanocortin receptor binding; type 3 melanocortin receptor binding; type 4 melanocortin receptor binding;