

Recombinant Mouse Pomc protein, His-tagged

Cat. No. Pomc-6794M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Pomc aa. (Trp27~Gln235 (Accession # P01193)) fused with N-terminal His tag was produced in E. coli cells.
Species	Mouse
Source	E.coli
ProteinLength	Trp27~Gln235
Description	This gene encodes a polypeptide hormone precursor that undergoes extensive, tissue-specific, post-translational processing. Processing yields several biologically active peptides, which are involved in diverse cellular functions, such as energy homeostasis, steroidogenesis, and increased melanin production in melanocytes. In mouse deficiency of this gene is associated with obesity, defects in adrenal development, and altered pigmentation. A pseudogene of this gene is located on chromosome 19. Alternative splicing results in multiple transcript variants.
Form	Freeze-dried powder
Molecular Mass	33kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%

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Characteristic	The isoelectric point is 7.8.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 1mM DTT, 5% trehalose, 0.05% sarcosyl and preservative.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

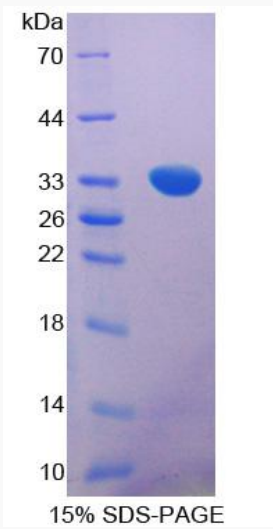
GENE INFORMATION

Gene Name	Pomc pro-opiomelanocortin-alpha [Mus musculus (house mouse)]
Official Symbol	Pomc
Synonyms	BE; Npp; ACTH; Clip; Pomc1; Pomc-1; Beta-LPH; alphaMSH; beta-MSH; Gamma-LPH; alpha-MSH; gamma-MSH; adrenal corticotropic hormone; adrenocorticotrophic hormone; alpha-melanocyte stimulating hormone; beta-endorphin; corticotropin-like intermediary peptide; corticotropin-lipotropin; melanotropin gamma; met-enkephalin; pro-opiomelanocortin

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Gene ID	18976
mRNA Refseq	NM_001278581.1
Protein Refseq	NP_001265510.1
UniProt ID	P01193
SDS-PAGE	 15% SDS-PAGE