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## **Recombinant human POMC protein**

Catalog Number: ATGP1088

#### PRODUCT INFORMATION

## **Expression system**

E.coli

#### **Domain**

27-267aa

#### UniProt No.

P01189

#### **NCBI Accession No.**

NP 001030333

#### **Alternative Names**

Pro-opiomelanocortin preproprotein, ACTH, CLIP, LPH, MSH, NPP, POC

## PRODUCT SPECIFICATION

#### **Molecular Weight**

28.9 kDa (262aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

#### Concentration

0.25mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.5) containing 1mM DTT, 50% glycerol, 0.2M NaCl, 0.1mM PMSF, 100mM Imidazole

## **Purity**

> 85% by SDS-PAGE

#### Tag

His-Tag

## **Application**

SDS-PAGE

## **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

### **BACKGROUND**

### **Description**

Pro-opiomelanocortin preproprotein, also known as POMC, a polypeptide hormone precursor that undergoes extensive, tissue-specific, post-translational processing via cleavage by subtilisin-like enzymes known as prohormone convertases. It regulates the corticosteroid production in the adrenal cortex. Also, POMC is cleaved into ten hormone chains named NPP, gamma-MSH, ACTH, alpha-MSH, CLIP, Lipotropin beta, Lipotropin gamma, beta-MSH, beta endorphin and Met-enkephalin. Defects in the gene that encodes POMC are the cause of POMC



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deficiency, which is characterized by red hair and adrenal insufficiency. Recombinant human POMC protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

## **Amino acid Sequence**

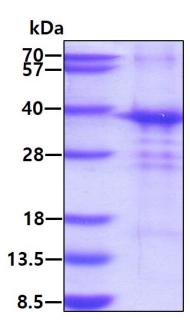
<MGSSHHHHHH SSGLVPRGSH M>WCLESSQCQ DLTTESNLLE CIRACKPDLS AETPMFPGNG DEQPLTENPR KYVMGHFRWD RFGRRNSSSS GSSGAGQKRE DVSAGEDCGP LPEGGPEPRS DGAKPGPREG KRSYSMEHFR WGKPVGKKRR PVKVYPNGAE DESAEAFPLE FKRELTGQRL REGDGPDGPA DDGAGAQADL EHSLLVAAEK KDEGPYRMEH FRWGSPPKDK RYGGFMTSEK SQTPLVTLFK NAIIKNAYKK GE

#### **General References**

Grassel S., et al. (2009) Arthritis Rheum. 60:3017-3027. Belgardt B F., et al. (1992) J Physiol. 587:5305-5314.

## **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

