

## POMC Human

**Description:** POMC produced in E.Coli is a single, non-glycosylated polypeptide chain containing 262 amino acids (27-267 a.a) and having a molecular mass of 28.9kDa (molecular weight on SDS-PAGE will appear higher). POMC is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Catalog #:** PRPS-243

For research use only.

**Synonyms:** Pro-opiomelanocortin, POMC, Corticotropin-lipotropin, LPH, MSH, NPP, POC, ACTH, CLIP.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MWCLESSQCQ DLTTESNLLE  
CIRACKPDLA AETPMFPGNG DEQPLTENPR KYVMGHRWD RFGRNRSSSS GSSGAGQKRE  
DVSAGEDCGP LPEGGPEPRS DGAKPGPREG KRSYSMEHFR WGKPVGKKRR PVKVYPNGAE  
DESAAEAPLE FKRELTGQRL REGDGPDGPA DDGAGAQADL EHSLLVAAEK KDEGPYRMEH  
FRWGSPPKDK RY

**Purity:** Greater than 85.0% as determined by SDS-PAGE.

### Formulation:

POMC protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 50% glycerol and 0.2M NaCl.

### Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

Pro-opiomelanocortin preproprotein (POMC) is a polypeptide hormone precursor which experiences extensive, tissue-specific, post-translational processing via cleavage by subtilisin-like enzymes known as prohormone convertases. POMC regulates the corticosteroid production in the adrenal cortex. Furthermore, POMC is cleaved into ten hormone chains named NPP, g-MSH, ACTH, a-MSH, CLIP, Lipotropin b, Lipotropin g, b-MSH, b endorphin and Met-enkephalin. POMC gene defects are the cause of POMC deficiency, which is characterized by red hair and adrenal insufficiency.

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