

## 32-4482: Recombinant Human Proopiomelanocortin

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

### Description

Source : Escherichia Coli. 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. 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.

### Product Info

<b>Amount :</b>	10 µg
<b>Purification :</b>	Greater than 85.0% as determined by SDS-PAGE.
<b>Content :</b>	POMC protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 50% glycerol and 0.2M NaCl.
<b>Storage condition :</b>	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.
<b>Amino Acid :</b>	MGSSHHHHHH SGLVPRGSH MWCLESSQCQ DLTTESNLL CIRACKPDL AETPMFPGNG DEQPLTENPR KYVMGHRWD RFRRNSSSS GSSGAGQKRE DVSAGEDCGP LPEGGPEPRS DGAKPGPREG KRYSMEHFR WKPVGKKRR PVKVYPNGAE DESAEAFPLE FKRELTGQRL REGDGPDGPA DDGAGAQADL EHSLLVAAEK KDEGPYRMEH FRWGSPPKDK RYGGFMTSEK SQTPLVTLFK NAIKNAYKK GE.

