

**POMC, 27-267aa, Human, His tag, E.coli**

**Cat.NO.: TP03471**

---

3th Edition

**Synonyms:**Pro-opiomelanocortin preproprotein, ACTH, CLIP, LPH, MSH, NPP, POC

**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,  $\alpha$ -MSH, ACTH,  $\beta$ -MSH, CLIP, Lipotropin  $\alpha$ , Lipotropin  $\beta$ ,  $\gamma$ -MSH,  $\delta$  endorphin and Met-enkephalin.

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

**Molecular Weight:**28.9 kDa (262aa), confirmed by MALDI-TOF (molecular weight on SDS-PAGE will appear higher)

**Sequences:**

MGSSHHHHHSSGLVPRGSHMWCLESSQCQDLTTESNLLECIRACKPDLSAETPMFPGNGDEQPLTENPRKYVM  
GHFRWDRFGRRNSSSSGSSGAGQKREDVSAGEDCGPLPEGGPEPRSDGAKPGPREGKRSYSMEHFRWGKPV  
GKKRRPVKVYPNGAEDESAEAFPLEFKRELTGQRLREGDGPDPADDGAGAQAADLEHSLLVAAEKKDEGPYRME  
HFRWGSPPKDKRYGGFMTSEKSQTPLVTLFKNAIKNAYKKGE

**Purity:**> 95% by HPLC

**Concentration:**0.25 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.