

Product information

POMC, 27-267 aa

Human, His-tagged, Recombinant, *E.coli*

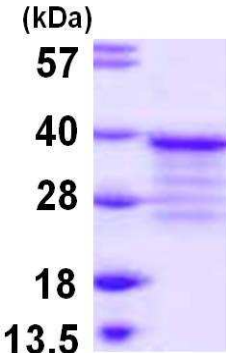
Cat. No. IBATGP1088

Full name: Pro-opiomelanocortin preproprotein

NCBI Accession No.: NP_001030333

Synonyms: 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, γ -MSH, ACTH, α -MSH, CLIP, Lipotropin β , Lipotropin γ , β -MSH, β endorphin and Met-enkephalin. Defects in the gene that encodes POMC are the cause of POMC 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.

<p>Form: Liquid. In 20mM Tris-HCl buffer (pH 8.5) containing 1mM DTT, 50% glycerol, 0.2M NaCl, 0.1mM PMSF, 100mM Imidazole</p> <p>Molecular Weight: 28.9 kDa (262aa), confirmed by MALDI-TOF (molecular weight on SDS-PAGE will appear higher)</p> <p>Purity: > 85% by SDS - PAGE</p> <p>Concentration: 0.25 mg/ml (determined by Bradford assay)</p>	 <p>15% SDS-PAGE (3ug)</p>
<p>Sequences of amino acids:</p> <p>MGSSHHHHH SSGLVPRGSH MWCLESSQCC DLTTESNLL CIRACKPDLA AETPMFPGNG DEQPLTENPR KYVMGHFRWD RFGRNRSSSS GSSGAGQKRE DVSAGEDCGP LPEGGPEPRS DGAKPGRPREG KRSYSMEHFR WGKPVGKKRR PVKVYPNGAE DESAEAFPLE FKRELTGQRL REGDGPDPGA DDGAGAQAADL EHSLLVAAEK KDEGPYRMEH FRWGSPPKDK RYGGFMTSEK SQTPLVTLFK NAI IKNAYKK GE</p>	

General references:

Grassel S., *et al.* (2009) *Arthritis Rheum.* 60:3017-3027.

Belgardt B F., *et al.* (1992) *J Physiol.* 587:5305-5314.

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.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



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