9051 Mira Mesa Blvd, #910094
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# POMC Human

*Proopiomelanocortin Human Recombinant*
*RCP1686*

## Product Overview

| | |
|---|---|
| Name | POMC Human |
| **Description** | |
| Proopiomelanocortin Human Recombinant | |
| Accession (Primary) | P01189 |
| **Synonyms** | |
| Pro-opiomelanocortin, POMC, LPH, MSH, NPP, POC, ACTH, CLIP. | |
| **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. | |
| **Source** | |
| Escherichia Coli. | |
| **Physical Appearance** | |
| Sterile Filtered colorless solution. | |
| **Formulation** | |
| POMC protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH 8.5), 1mM DTT, 50% glycerol, 0.1mM PMSF, 0.1M Imidazole 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. | |
| **Purity** | |
| Greater than 85.0% as determined by SDS-PAGE. | |
| **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 | |

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KDEGPYRMEH FRWGSPPKDK RYGGFMTSEK SQTPLVTLFK NAIIKNAYKK GE.

**Precautions**

POMC Human is for research use only and not for use in diagnostic or therapeutic procedures.

## Target Information: ( P01189 )