

## Pro-opiomelanocortin (POMC) Recombinant Protein | POMC recombinant protein

Recombinant Pig Pro-opiomelanocortin (POMC)

|                               |                                                                 |
|-------------------------------|-----------------------------------------------------------------|
| CATALOG #<br><b>AAA114720</b> | HOST<br><b>E Coli or Yeast or Baculovirus or Mammalian Cell</b> |
|-------------------------------|-----------------------------------------------------------------|

### PRODUCT SYNONYMS

Pro-opiomelanocortin (POMC); Recombinant Pig Pro-opiomelanocortin (POMC); Pro-opiomelanocortin; POMC; Corticotropin-lipotropinCleaved into the following 10 chains;; 1. NPP; 2. Melanotropin gamma; Gamma-MSH; Corticotropin; Adrenocorticotrophic hormone; ACTH; Melanotropin alpha; Alpha-MSH; Corticotropin-like intermediary peptide;; POMC recombinant protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                     |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | E Coli or Yeast or Baculovirus or Mammalian Cell                                                                                                                                                    |
| Purity/Purification     | Greater or equal to 85% purity as determined by SDS-PAGE.                                                                                                                                           |
| Form/Format             | Lyophilized or liquid (Format to be determined during the manufacturing process)                                                                                                                    |
| Sequence Positions      | 27-106. partial protein;                                                                                                                                                                            |
| Sequence                | WCLESSQCQD LSTESNLLAC IRACKPDLSA ETPVFPNGD AQPLTENPRK YVMGHFRWDR FGRRNGSSSG<br>GGGGGGGAGQ                                                                                                           |
| Sequence Length         | 106                                                                                                                                                                                                 |
| Species                 | Sus scrofa (Pig)                                                                                                                                                                                    |
| Preparation and Storage | Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended. |

### ADDITIONAL INFORMATION

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| Related Product Information for POMC recombinant protein | This gene encodes a polypeptide hormone precursor that undergoes extensive, tissue-specific, post-translational processing via cleavage by subtilisin-like enzymes known as prohormone convertases. There are eight potential cleavage sites within the polypeptide precursor and, depending on tissue type and the available convertases, processing may yield as many as ten biologically active peptides involved in diverse cellular functions. The encoded protein is synthesized mainly in corticotroph cells of the anterior pituitary where four cleavage sites are used; adrenocorticotrophin, essential for normal steroidogenesis and the maintenance of normal adrenal weight, and lipotropin beta are the major end products. In other tissues, including the hypothalamus, placenta, and epithelium, all cleavage sites may be used, giving rise to peptides with roles in pain and energy homeostasis, melanocyte stimulation, and immune modulation. These include several distinct melanotropins, lipotropins, and endorphins that are contained within the adrenocorticotrophin and beta-lipotropin peptides. Mutations in this gene have been associated with early onset obesity, adrenal insufficiency, and red hair pigmentation. Alternatively spliced transcript variants encoding the same protein have been described. |
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### NCBI AND UNIPROT INFORMATION

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|---------------------------|----------------|
| NCBI GI #                 | 47523146       |
| NCBI GeneID               | 396863         |
| NCBI Accession #          | NP_999023.1    |
| NCBI GenBank Nucleotide # | NM_213858.1    |
| UniProt Accession #       | P01192; Q95246 |

|                            |                                                                                                                                                                                                       |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Molecular Weight           | 28,895 Da                                                                                                                                                                                             |
| NCBI Official Full Name    | pro-opiomelanocortin                                                                                                                                                                                  |
| NCBI Official Symbol       | POMC                                                                                                                                                                                                  |
| NCBI Protein Information   | pro-opiomelanocortin; corticotropin-lipotropin; proopiomelanocortin (adrenocorticotropin/ beta-lipotropin/ alpha-melanocyte stimulating hormone/ beta-melanocyte stimulating hormone/ beta-endorphin) |
| UniProt Protein Name       | Pro-opiomelanocortin                                                                                                                                                                                  |
| UniProt Gene Name          | <b>POMC</b>                                                                                                                                                                                           |
| UniProt Synonym Gene Names | POMC; ACTH; CLIP                                                                                                                                                                                      |
| UniProt Entry Name         | COLI_PIG                                                                                                                                                                                              |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/pomc-recombinant-protein-e-coli-or-yeast-or-baculovirus-or-mammalian-cell/114720>