

## Recombinant Human POMC 293 Cell Lysate

Cat. No. POMC-3018HCL Lot. No. (See product label)

### SPECIFICATION

<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	Antigen standard for proopiomelanocortin (POMC), transcript variant 1 is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
<b>Components</b>	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
<b>Size</b>	0.1 mg
<b>Storage Instruction</b>	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.
<b>Applications</b>	ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

mixture at room temperature for 30 min). Load 5 ug lysate per lane.

## GENE INFORMATION

**Gene Name** POMC proopiomelanocortin [ Homo sapiens ]

**Official Symbol** POMC

**Synonyms**

POMC; proopiomelanocortin; pro-opiomelanocortin; ACTH; adrenocorticotrophic hormone; adrenocorticotropin; alpha melanocyte stimulating hormone; beta endorphin; beta lipotropin; beta melanocyte stimulating hormone; CLIP; LPH; MSH; NPP; POC; beta-LPH; beta-MSH; alpha-MSH; gamma-LPH; gamma-MSH; beta-endorphin; met-enkephalin; lipotropin beta; lipotropin gamma; melanotropin beta; melanotropin alpha; melanotropin gamma; pro-ACTH-endorphin; corticotropin-lipotropin; proopiomelanocortin preproprotein; beta-melanocyte-stimulating hormone; alpha-melanocyte-stimulating hormone; corticotropin-like intermediary peptide;

**Gene ID** 5443

**mRNA Refseq** NM\_000939

**Protein Refseq** NP\_000930

**MIM** 176830

**UniProt ID** P01189

**Chromosome Location** 2p23

**Pathway** Adipocytokine signaling pathway, organism-specific biosystem; Adipocytokine

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signaling pathway, conserved biosystem; Androgen biosynthesis, organism-specific biosystem; Biological oxidations, organism-specific biosystem; Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; Cytochrome P450 - arranged by substrate type, organism-specific biosystem; Endogenous sterols, organism-specific biosystem;

**Function**

G-protein coupled receptor binding; hormone activity; hormone activity; receptor binding; type 1 melanocortin receptor binding; type 1 melanocortin receptor binding; type 3 melanocortin receptor binding; type 4 melanocortin receptor binding;

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