

Recombinant Human POMC 293 Cell Lysate

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

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	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.
Components	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).
Size	0.1 mg
Storage Instruction	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.

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

Applications

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 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

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Pathway

Adipocytokine signaling pathway, organism-specific biosystem; Adipocytokine 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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