

Product datasheet for TP318901

OriGene Technologies, Inc.

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UCP1 (NM_021833) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Purified recombinant protein of Human uncoupling protein 1 (mitochondrial, proton carrier)

(UCP1), nuclear gene encoding mitochondrial protein, full length, with C-terminal MYC/DDK

tag, expressed in HEK293 cells, 20 µg

Species: Human Expression Host: HEK293

Expression cDNA Clone >RC218901 representing NM_021833 or AA Sequence: Red=Cloning site Green=Tags(s)

MGGLTASDVHPTLGVQLFSAGIAACLADVITFPLDTAKVRLQVQGECPTSSVIRYKGVLGTITAVVKTEG RMKLYSGLPAGLQRQISSASLRIGLYDTVQEFLTAGKETAPSLGSKILAGLTTGGVAVFIGQPTEVVKVR LQAQSHLHGIKPRYTGTYNAYRIIATTEGLTGLWKGTTPNLMRSVIINCTELVTYDLMKEAFVKNNILAD DVPCHLVSALIAGFCATAMSSPVDVVKTRFINSPPGQYKSVPNCAMKVFTNEGPTAFFKGLVPSFLRLGS

WNVIMFVCFEQLKRELSKSRQTMDCAT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK
Predicted MW: 32.8 kDa

Concentration: >0.05 μg/μL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by

conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience

some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and

handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: NP 068605





Locus ID: 7350

 UniProt ID:
 P25874

 RefSeq Size:
 1047

 Cytogenetics:
 4q31.1

 RefSeq ORF:
 921

Synonyms: SLC25A7; UCP

Summary: Mitochondrial uncoupling proteins (UCP) are members of the family of mitochondrial anion

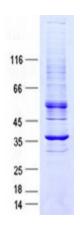
carrier proteins (MACP). UCPs separate oxidative phosphorylation from ATP synthesis with energy dissipated as heat, also referred to as the mitochondrial proton leak. UCPs facilitate the transfer of anions from the inner to the outer mitochondrial membrane and the return transfer of protons from the outer to the inner mitochondrial membrane. They also reduce the mitochondrial membrane potential in mammalian cells. Tissue specificity occurs for the different UCPs and the exact methods of how UCPs transfer H+/OH- are not known. UCPs contain the three homologous protein domains of MACPs. This gene is expressed only in brown adipose tissue, a specialized tissue which functions to produce heat. [provided by

RefSeq, Jul 2008]

Protein Families: Druggable Genome

Protein Pathways: Huntington's disease, PPAR signaling pathway

Product images:



Coomassie blue staining of purified UCP1 protein (Cat# TP318901). The protein was produced from HEK293T cells transfected with UCP1 cDNA clone (Cat# [RC218901]) using MegaTran 2.0 (Cat# [TT210002]).