

Product datasheet for **TP318901**

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 or AA Sequence:	>RC218901 representing NM_021833 Red =Cloning site Green =Tags(s) MGGLTASDVHPTLGVQLFSAGIAACLADVITFPLDTAKVRLQVQGECPSTSSVIRYKGVLTITAVVKTEG RMKLYSGLPAGLQRQISSASLRIGLYDTVQEFLTAGKETAPSLGSKILAGLTGGVAVFIGQPTEVVKVR LQAQSHLHGKIPRYGTYNAYRIIATTEGLTGLWKGTTPNLMRSVIINCTELVTDLMKEAFVKNNILAD DVPCHLVSALIAGFCATAMSSPVDVVKTRFINSPPGYKSVPCAMKVFTNEGPTAFFKGLVPSFLRLGS 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



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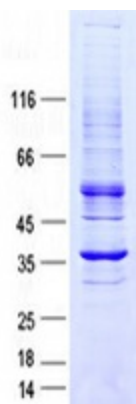
Locus ID: 7350
UniProt ID: [P25874](#)
RefSeq Size: 1047
Cytogenetics: 4q31.1
RefSeq ORF: 921
Synonyms: SLC25A7; UCP

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]).