

Recombinant Full Length Human UCP2 Protein, N-His-tagged

Cat. No. UCP2-1963HFL Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human UCP2 Protein, fused to His-tag at N-terminus, was expressed in E. coli.
Species	Human
Source	E.coli
Description	Mitochondrial uncoupling proteins (UCP) are members of the larger 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 in many tissues, with the greatest expression in skeletal muscle. It is thought to play a role in nonshivering thermogenesis, obesity and diabetes. Chromosomal order is 5'-UCP3-UCP2-3'.
Form	25mM Tris, pH8.0, 150 mM NaCl, 10% glycerol, 1 % Sarkosyl.
Molecular Mass	33 kDa
AA Sequence	A DNA sequence encoding human full-length UCP2.

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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Protein Families	Druggable Genome
Full Length	Full L.

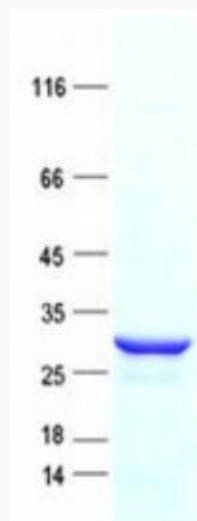
GENE INFORMATION

Gene Name	UCP2 uncoupling protein 2 [Homo sapiens (human)]
Official Symbol	UCP2
Synonyms	UCPH; BMIQ4; SLC25A8
Gene ID	7351
mRNA Refseq	NM_003355.3
Protein Refseq	NP_003346.2
MIM	601693
UniProt ID	P55851

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SDS-PAGE

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