

Recombinant Human UCP3, His-tagged

Cat. No. UCP3-30102TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment: GTLPNIMRNA IVNCAEVV TY DILKEKLLDY HLLT, corresponding to amino acids 181-214 of Human UCP3 fused to His tag, 10kDa.
Species	Human
Source	E.coli
ProteinLength	181-214 a.a.
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. The different UCPs have tissue-specific expression; this gene is primarily expressed in skeletal muscle. This genes protein product is postulated to protect mitochondria against lipid-induced oxidative stress. Expression levels of this gene increase when fatty acid supplies to mitochondria exceed their oxidation capacity and the protein enables the export of fatty acids from mitochondria. UCPs contain the three solcar protein domains typically found in MACPs. Two splice variants have been found for this gene.
Conjugation	HIS

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Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 1X PBS
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Sequences of amino acids	GTLPNIMRNAIVNCAEVVTDILKEKLLDYHLLT

GENE INFORMATION

Gene Name	UCP3 uncoupling protein 3 (mitochondrial, proton carrier) [Homo sapiens]
Official Symbol	UCP3
Synonyms	UCP3; uncoupling protein 3 (mitochondrial, proton carrier); mitochondrial uncoupling protein 3; SLC25A9;
Gene ID	7352
mRNA Refseq	NM_003356
Protein Refseq	NP_003347
MIM	602044
Uniprot ID	P55916
Chromosome Location	11q13.4

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Pathway	Diurnally regulated genes with circadian orthologs, organism-specific biosystem; Electron Transport Chain, organism-specific biosystem; Energy Metabolism, organism-specific biosystem; Metabolism, organism-specific biosystem; Mitochondrial Uncoupling Proteins, organism-specific biosystem;
Function	binding; oxidative phosphorylation uncoupler activity; transporter activity;

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