# Recombinant Human UCP1 protein, His-tagged

**Cat. No.** UCP1-2916H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Human UCP1 protein(1-307 aa), fused to His tag, was expressed in E. coli. |
| **Species** | Human |
| **Source** | E.coli |
| **ProteinLength** | 1-307 aa |
| **Form** | The purified protein was Lyophilized from sterile PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH7.4). 5 % trehalose and 5 % mannitol are added as protectant before lyophilization. The elution buffer contain 300mM imidazole. |
| **AA Sequence** | MGGLTASDVHPTLGVQLFSAGIAACLADVITFPLDTAKVRLQVQGECPTSSVIRYKG VLGTITAVVKTEGRMKLYSGLPAGLQRQISSASLRIGLYDTVQEFLTAGKETAPSLGS KILAGLTTGGVAVFIGQPTEVVKVRLQAQSHLHGIKPRYTGTYNAYRIIATTEGLTGL WKGTTPNLMRSVIINCTELVTYDLMKEAFVKNNILADDVPCHLVSALIAGFCATAMSS PVDVVKTRFINSPPGQYKSVPNCAMKVFTNEGPTAFFKGLVPSFLRLGSWNVIMFV CFEQLKRELSKSRQTMDCAT |
| **Purity** | 80%, by SDS-PAGE with Coomassie Brilliant Blue staining. |
| **Storage** | Short-term storage: Store at 2-8°C for (1-2 weeks).<br>Long-term storage: Aliquot and store at -20°C to -80°C for up to 3 months, buffer containing 50% glycerol is recommended for reconstitution. Avoid repeat freeze-thaw |

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| | cycles. |
| **Reconstitution** | Reconstitute at 0.25 ḡ/µl in 200 µl sterile water for short-term storage. Reconstitution with 200 µl 50% glycerol solution is recommended for longer term storage. |

## GENE INFORMATION

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| **Gene Name** | UCP1 uncoupling protein 1 (mitochondrial, proton carrier) [ Homo sapiens ] |
| **Official Symbol** | UCP1 |
| **Synonyms** | UCP1; uncoupling protein 1 (mitochondrial, proton carrier); UCP; mitochondrial brown fat uncoupling protein 1; SLC25A7; thermogenin; solute carrier family 25 member 7; |
| **Gene ID** | 7350 |
| **mRNA Refseq** | NM_021833 |
| **Protein Refseq** | NP_068605 |
| **MIM** | 113730 |
| **UniProt ID** | P25874 |

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