

Recombinant Human SLC25A27 Protein, His-tagged

Cat. No. SLC25A27-402H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human SLC25A27 Protein (Ser21-Met317) with N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Ser21-Met317
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. Transcripts of this gene are only detected in brain tissue and are specifically modulated by various environmental conditions. Alternative splicing results in multiple transcript variants.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 36.8 kDa Accurate Molecular Mass: 34 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	SLC25A27 solute carrier family 25 member 27 [Homo sapiens (human)]
Official Symbol	SLC25A27
Synonyms	SLC25A27; solute carrier family 25 member 27; UCP4; mitochondrial uncoupling protein 4; UCP 4; uncoupling protein 4
Gene ID	9481
mRNA Refseq	NM_004277
Protein Refseq	NP_004268

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MIM	613725
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UniProt ID	O95847
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