

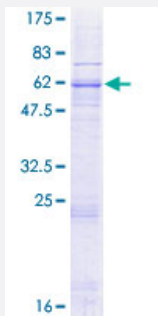
Full-Length

SLC25A14 (Human) Recombinant Protein (P01)

Catalog # H00009016-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human SLC25A14 full-length ORF (NP_003942.1, 1 a.a. - 325 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MGIFPGIILIFLRVKFATAAVIVSGHQKSTTVSHEMSGLNWKPFVYGGGLASVAEFGTFPVDLTkTRL
QVQGQSIDARFKEIKYRGMFHALFRICKEEGLVLYSGIAPALLRQASYGTIKIGYQSLKRLFVERLE
DETLINMICGVVSGVISSTIANPTDVLKIRMQAQGSLFQGS MIGSFIDIYQQEGTRGLWRGVVPTAQ
RAAIVGVELPVYDITKKHLILSGMMGDTILTHFVSSFTCGLAGALASNPVDVVRTRMMNQRAIVGH
VDLYKGTVDGILKMWKHEGFFALYKGFWPWNWLRGPWNIIFFITYEQLKRLQI

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

62.6

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — SLC25A14

Entrez GeneID [9016](#)

GeneBank Accession# [NM_003951.2](#)

Protein Accession# [NP_003942.1](#)

Gene Name SLC25A14

Gene Alias BMCP1, MGC149543, UCP5

Gene Description solute carrier family 25 (mitochondrial carrier, brain), member 14

Omim ID [300242](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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 widely expressed in many tissues with the greatest abundance in brain and testis. The gene product has an N-terminal hydrophobic domain that is not present in other UCPs. Two splice variants have been found for this gene. [provided by RefSeq]

Other Designations OTTHUMP00000024012|OTTHUMP00000024013|brain mitochondrial carrier protein 1|mitochondrial uncoupling protein 5|solute carrier family 25, member 14

Disease

- [Genetic Predisposition to Disease](#)
- [Schizophrenia](#)