

## Recombinant Human SLC25A37 protein, His & T7-tagged

Cat. No. SLC25A37-1213H    Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                           |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human SLC25A37 aa. (Pro65~Tyr338 (Accession # Q9NYZ2) fused with N-terminal His & T7 tag was produced in E. coli cells.                                                                                                       |
| <b>Species</b>          | Human                                                                                                                                                                                                                                     |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                    |
| <b>ProteinLength</b>    | Pro65~Tyr338                                                                                                                                                                                                                              |
| <b>Description</b>      | SLC25A37 is a solute carrier localized in the mitochondrial inner membrane. It functions as an essential iron importer for the synthesis of mitochondrial heme and iron-sulfur clusters (summary by Chen et al., 2009 [PubMed 19805291]). |
| <b>Form</b>             | Freeze-dried powder                                                                                                                                                                                                                       |
| <b>Molecular Mass</b>   | Predicted Molecular Mass: 34.5kDa.                                                                                                                                                                                                        |
| <b>Endotoxin</b>        | <1.0EU per 1g (determined by the LAL method)                                                                                                                                                                                              |
| <b>Purity</b>           | >95%                                                                                                                                                                                                                                      |
| <b>Characteristic</b>   | The isoelectric point is 9.7.                                                                                                                                                                                                             |
| <b>Applications</b>     | SDS-PAGE; WB; ELISA; IP.                                                                                                                                                                                                                  |

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|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stability</b>        | The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition. |
| <b>Storage</b>          | Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.                                                                                                                                                                                                                                                                                                                                                                |
| <b>Storage buffer</b>   | Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Reconstitution</b>   | Reconstitute in sterile PBS, pH7.2-pH7.4.                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Gene Name</b>        | SLC25A37 solute carrier family 25 member 37 [ Homo sapiens (human) ]                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Official Symbol</b>  | SLC25A37                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Synonyms</b>         | SLC25A37; solute carrier family 25 member 37; MSC; MFRN; MSCP; HT015; MFRN1; PRO1278; PRO1584; PRO2217; mitoferrin-1; mitochondrial iron transporter 1; mitochondrial solute carrier protein; mitoferrin; predicted protein of HQ2217; solute carrier family 25 (mitochondrial iron transporter), member 37                                                                                                                                                               |
| <b>Gene ID</b>          | 51312                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>mRNA Refseq</b>      | NM_001317812.1                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Protein Refseq</b>   | NP_001304741.1                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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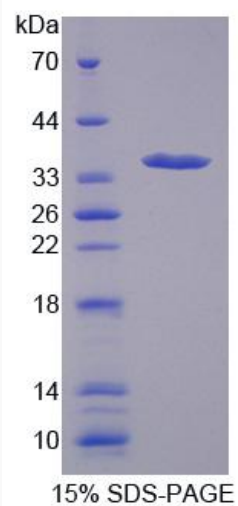
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UniProt ID

Q9NYZ2

SDS-PAGE



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