

# Recombinant Human GLRX Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** GLRX-4206H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | GLRX MS Standard C13 and N15-labeled recombinant protein (NP_002055) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>      | This gene encodes a member of the glutaredoxin family. The encoded protein is a cytoplasmic enzyme catalyzing the reversible reduction of glutathione-protein mixed disulfides. This enzyme highly contributes to the antioxidant defense system. It is crucial for several signalling pathways by controlling the S-glutathionylation status of signalling mediators. It is involved in beta-amyloid toxicity and Alzheimer's disease. Multiple alternatively spliced transcript variants encoding the same protein have been identified. |
| <b>Molecular Mass</b>   | 11.6 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>AA Sequence</b>      | MAQEFVNCKIQPGKVVFIFKPTCPYCRAQEILSQLPIKQGLLEFVDITATNHTNEIQD<br>YLQQLTGARTVPRVFIGKDCIGGCSDLVSLQQSGELLTRLKQIGALQTRTRPLEQKLI<br>SEEDLAANDILDYKDDDDKV                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Stability</b>        | Stable for 3 months from receipt of products under proper storage and handling                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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conditions.

**Storage** Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration** 50 µg/mL as determined by BCA

**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

**Gene Name** GLRX glutaredoxin [ Homo sapiens (human) ]

**Official Symbol** GLRX

**Synonyms** GLRX; glutaredoxin (thioltransferase); glutaredoxin-1; GRX; GRX1; TTase-1; thioltransferase-1; FLJ43648; MGC117407;

**Gene ID** 2745

**mRNA Refseq** NM\_002064

**Protein Refseq** NP\_002055

**MIM** 600443

**UniProt ID** P35754

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**SDS-PAGE**

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