

## Recombinant Human GLRX2 Protein

Cat. No. GLRX2-013H Lot. No. (See product label)

### SPECIFICATION

|                         |   |
|-------------------------|---|
| <b>Product Overview</b> | Recombinant Human GLRX2 protein without tag was expressed in E. coli.   |
| <b>Species</b>          | Human   |
| <b>Source</b>           | E.coli  |
| <b>Description</b>      | <p>Glutathione-dependent oxidoreductase that facilitates the maintenance of mitochondrial redox homeostasis upon induction of apoptosis by oxidative stress. Involved in response to hydrogen peroxide and regulation of apoptosis caused by oxidative stress. Acts as a very efficient catalyst of monothiol reactions because of its high affinity for protein glutathione-mixed disulfides. Can receive electrons not only from glutathione (GSH), but also from thioredoxin reductase supporting both monothiol and dithiol reactions. Efficiently catalyzes both glutathionylation and deglutathionylation of mitochondrial complex I, which in turn regulates the superoxide production by the complex. Overexpression decreases the susceptibility to apoptosis and prevents loss of cardiolipin and cytochrome c release.</p> |
| <b>Form</b>             | Lyophilized   |
| <b>Stability</b>        | ≥ 6 months  |
| <b>Storage</b>          | 4 centigrade  |
| <b>Storage Buffer</b>   | 50 mM tris-HCl-1 mM EDTA, pH 7.5  |

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**GENE INFORMATION**

|                        |  |
|------------------------|--|
| <b>Gene Name</b>       | GLRX2 glutaredoxin 2 [ Homo sapiens (human) ]  |
| <b>Official Symbol</b> | GLRX2  |
| <b>Synonyms</b>        | GLRX2; glutaredoxin 2; GRX2; CGI-133; glutaredoxin 2; bA101E13.1 (GRX2 glutaredoxin (thioltransferase) 2); glutaredoxin (thioltransferase) 2 |
| <b>Gene ID</b>         | 51022  |
| <b>mRNA Refseq</b>     | NM_001243399   |
| <b>Protein Refseq</b>  | NP_001230328   |
| <b>MIM</b>             | 606820   |
| <b>UniProt ID</b>      | Q9NS18   |

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