

Recombinant Human Glutaredoxin-1

Cat. No. GLRX-138H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human Glutaredoxin1 protein was expressed in E.coli and purified by using conventional chromatography techniques, 11.7 kDa (106 aa).
Species	Human
Source	E.coli
Description	Glutaredoxin(GRX), also known as thioltransferase, is member of the thiol-disulfide oxidoreductase family. Glutaredoxin catalyzes the reversible reduction of protein-glutathionyl mixed disulfides to free sulfhydryl groups through a monothiol mechanism. Mammalian Glutaredoxin is known to have two isoforms, GRX1 and GRX2. GRX1 is a cytosolic protein, whereas GRX2 is localized both in the mitochondria and nucleus. Glutaredoxin-1 may be involved in various cellular events such as signal transduction, stress response, and metabolic regulation by regulating the redox status of cellular proteins.
Sequences of amino acids	MAQEFVNCKI QPGKVVVFIK PTCPYCRRQA EILSQLPIKQ GLLEFVDITA TNHTNEIQDY LQQLTGARTV PRVFIGKDCI GGCSDLVSLQ QSGELLTRLK QIGALQ
Formulation	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT 10% glycerol
Purity	> 95% by SDS - PAGE
Concentration	1 mg/ml (determined by Bradford assay)

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Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION
Gene Name

GLRX glutaredoxin (thioltransferase) [Homo sapiens]

Synonyms

GRX; GRX1; MGC117407; OTTHUMP00000149979; TTase-1; Thioltransferase-1; glutaredoxin (thioltransferase); GLRX; GLRX1; Glutaredoxin-1;Thioltransferase-1; TTase-1

Gene ID

2745

mRNA Refseq

NM_002064

Protein Refseq

NP_002055

MIM

600443

UniProt ID

P35754

**Chromosome
Location**

5q14

Pathway

Reactome Event:Nucleotide metabolism

Function

electron carrier activity; glutathione disulfide oxidoreductase activity; protein N-terminus binding; protein disulfide oxidoreductase activity

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PDBrendering based
on 1b4q. Available
structures:1b4q,1jhb



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