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. Glutraredoxin catalyzes the reversible reduction of protein-glutathionyl mixed disulfides to free sulfhydryl groups though 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 a 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 PTCPYCRRAQ 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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