

Recombinant Human GLRX

Cat. No. GLRX-27691TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Glutaredoxin 1; amino acids 1-106 , 11.7kDa.
Species	Human
Source	E.coli
ProteinLength	1-106 a.a.
Description	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 Alzheimers disease. Multiple alternatively spliced transcript variants encoding the same protein have been identified.
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 10% Glycerol, 20mM Tris HCl, 1mM DTT, pH 8.0
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

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Sequences of amino acids	MAQEFVNCKI QPGKVVVFIK PTCPYCRRAQ EILSQLPIKQ GLLEFVDITA TNHTNEIQDY LQQLTGARTV PRVFIGKDCI GGCSDLVSLQ QSGELLTRLK QIGALQ
Sequence Similarities	Belongs to the glutaredoxin family.Contains 1 glutaredoxin domain.
Full Length	Full L.
GENE INFORMATION	
Gene Name	GLRX glutaredoxin (thioltransferase) [Homo sapiens]
Official Symbol	GLRX
Synonyms	GLRX; glutaredoxin (thioltransferase); glutaredoxin-1; GRX; GRX1;
Gene ID	2745
mRNA Refseq	NM_001118890
Protein Refseq	NP_001112362
MIM	600443
Uniprot ID	P35754
Chromosome Location	5q14
Pathway	Metabolism, organism-specific biosystem; Metabolism of nucleotides, organism-specific biosystem; Synthesis and interconversion of nucleotide di- and triphosphates, organism-specific biosystem; ascorbate glutathione cycle, conserved biosystem;

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Function

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

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