

Glutaredoxin 1 Recombinant Protein | GLRX1 recombinant protein

Recombinant Yeast Glutaredoxin 1

CATALOG # AAA38610	HOST E Coli
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PRODUCT SYNONYMS

Glutaredoxin 1; Recombinant Yeast Glutaredoxin 1; Thioltransferase; GRX; GLRX1; GRX1; GRX-1; GLRX-1; Glutathione-dependent oxidoreductase 1; Glutaredoxin 1.; GLRX1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 90% as determined by SDS-PAGE.
Form/Format	Glutaredoxin solution (1mg/ml) contains 25mM Tris-HCl pH-7.5 & 0.01% Na Azide. Sterile Filtered clear colorless solution.
Concentration	1mg/ml (varies by lot)
Sequence Length	110
Preparation and Storage	1 week at 2-10 degree C. For long term store at -20 to -80 degree C.

ADDITIONAL INFORMATION

Related Product Information for GLRX1 recombinant protein	Description: Glutaredoxin <i>Saccharomyces cerevisiae</i> Recombinant containing 6x His tag at C-Terminus produced in E Coli is a single, non-glycosylated, Polypeptide chain having a molecular mass of 16 kDa. Introduction: GLRX1 has a glutathione-disulfide oxidoreductase activity in the presence of nadph and glutathione reductase. reduces low molecular weight disulfides and proteins. Glutaredoxin is a glutathione (GSH)-dependent hydrogen donor for ribonucleotide reductase and also catalyzes glutathione-disulfide oxidoreduction reactions in the presence of NADPH and glutathione reductase. GLRX1 is multifunctional enzyme with glutathione-dependent oxidoreductase, glutathione peroxidase and glutathione S-transferase (GST) activity. The disulfide bond functions as an electron carrier in the glutathione-dependent synthesis of deoxyribonucleotides by the enzyme ribonucleotide reductase. In addition, it is also involved in reducing cytosolic protein- and non-protein-disulfides in a coupled system with glutathione reductase. Required for resistance to reactive oxygen species (ROS) by directly reducing hydroperoxides and for the detoxification of ROS-mediated damage.
Product Categories/Family for GLRX1 recombinant protein	Enzymes; Glutaredoxin

NCBI AND UNIPROT INFORMATION

NCBI GI #	6319814
NCBI GeneID	850322
NCBI Accession #	NP_009895.1
NCBI GenBank Nucleotide #	NM_001178680.1
UniProt Accession #	P25373 ; D6VQY0
NCBI Official Full Name	dithiol glutaredoxin GRX1
NCBI Official Symbol	GRX1

NCBI Protein Information	dithiol glutaredoxin GRX1
UniProt Protein Name	Glutaredoxin-1
UniProt Gene Name	GRX1
UniProt Entry Name	GLRX1_YEAST

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/grx1-recombinant-protein-e-coli/38610>