

## 32-2364: GLRX1 Recombinant Protein

**Alternative Name :** Thioltransferase,GRX,GLRX1,GRX1,GRX-1,GLRX-1,Glutathione-dependent oxidoreductase 1,Glutaredoxin-1,Thioltransferase-1,TTase-1,GLRX,MGC117407.

### Description

Source : Escherichia Coli. Glutaredoxin Human Recombinant produced in E.Coli is a single, non-glycosylated, Polypeptide chain containing 106 amino acids having a molecular mass of 11.7 kDa. 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 Info

**Amount :** 50 µg  
**Purification :** Greater than 95% as determined by SDS-PAGE.  
**Content :** Glutaredoxin solution contains 20 mM Tris-HCl pH-8, 1mM DTT & 10% Glycerol.  
**Storage condition :** Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.  
**Amino Acid :** MAQEFVNCKI QPGKVVVFIK PTCPYCRAQ EILSQLPIKQ GLLEFVDITA TNHTNEIQDY LQQLTGARTV PRVFIGKDCI GGCSDLVSLQ QSGELLTRLK QIGALQ.

