

GLRX1 Human

Description: 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.

Catalog #: ENPS-398

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

For research use only.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered clear colorless solution.

Amino Acid Sequence: MAQEFVNCKI QPGKVVVFIK PTCPYCRRQAQ EILSQLPIKQ
GLLEFVDITA TNHTNEIQDY LQQLTGARTV PRVFIGKDCI GGCSDLVSLQ QSGELLTRLK
QIGALQ.

Purity: Greater than 95% as determined by SDS-PAGE.

Formulation:

Glutaredoxin solution contains 20 mM Tris-HCl pH-8, 1mM DTT & 10% Glycerol.

Stability:

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.

Usage:

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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.

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