

32-2365: GLRX1 Yeast Recombinant Protein

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

Description

Source : Escherichia Coli. Glutaredoxin Saccharomyces cerevisiae 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. 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 oxidation 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 90% as determined by SDS-PAGE.
Content : Glutaredoxin solution contains 25mM Tris-HCl pH-7.5 & 0.01% Na Azide.
Storage condition : 1 week at 2-10°C. For long term store at -20 to -80°C.