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## Product Data Sheet

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Product Name: GLRX1 Yeast  
Cat. No.: GP21684  
Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Thioltransferase; GRX; GLRX1; GRX1; GRX-1; GLRX-1; Glutathione-dependent oxidoreductase 1; Glutaredoxin 1.		
Formulation	Glutaredoxin solution contains 25mM Tris-HCl pH-7.5 & 0.01% Na Azide.		

### 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.

### Stability

1 week at 2-10°C . For long term store at -20 to -80°C .

### Background

Glutaredoxin Saccharamyces 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.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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