
Product Data Sheet

Product Name: GLRX2 Human
 Cat. No.: GP21686
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Thioltransferase; Glutathione-dependent oxidoreductase 2; TTR; TTR1; GLRX2; GRX2; GRX-2; GLRX-2; Glutaredoxin 2; CGI133.		
Amino Acid Sequence	MSAGWLDRAA GAAGAAAAAA SGMESNTSSS LENLATAPVN QIQETISDNC VVIFSKTSCS YCTMAKCLFH DMNVNYKVVV LDLLEYGNQF QDALYKMTGE RTVPRIFVNG TFIGGATDTH RLHKEGKLLP LVHQCYLKKS KRKEFQLEHH HHHH.		
Formulation	Glutaredoxin-2 solution (0.5mg/ml) contains 20mM Tris-HCl Buffer (pH 8.0), 0.1mM PMSF and 10% glycerol.		

Introduction

GLRX2 is a 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. Glutaredoxins are a family of glutathione-dependent hydrogen donors that participate in a variety of cellular redox reactions.

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.

Background

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

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Glutaredoxin-2 Human Recombinant produced in E.Coli is a single, non-glycosylated, Polypeptide chain containing 154 amino acids (20-164 a.a.) and having a molecular mass of 17 kDa. The GRX2 is fused to 9 amino acid His tag at C-Terminus.

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