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## Product Data Sheet

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Product Name: GRXB E.Coli  
 Cat. No.: GP21731  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Glutaredoxin-2; Grx2; grxB; b1064; JW1051.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MKLYYDHCP YCLKARMIFG LKNIPVELHV LLNDDAETPT RMVGQKQVPI LQKDDSRYP ESMDIVHYVD KLDGKPLLTG KRSPAIEEWL RKVNGYANKL LLPRFAKSAF DEFSTPAARK YFVDKKEASA GNFADLLAHS DGLIKNISDD LRALDKLIVK PNAVNGELSE DDIQLFPLLR NLTLVAGINW PSRVADYRDN MAKQTQINLL SSMAI.		
Formulation	GRXB protein solution (1mg/ml) 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 10% glycerol and 50mM NaCl.		

### Introduction

Glutaredoxin-2 (GrxB) is a member of the glutaredoxin family. Glutaredoxins are small redox enzymes of approximately 100 amino-acid residues which use glutathione as a cofactor. Glutaredoxins are oxidized by substrates, and reduced non-enzymatically by glutathione. GrxB is involved in reducing some disulfides in a coupled system with glutathione reductase. GrxB does not act as hydrogen donor for ribonucleotide reductase.

### 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

GRXB produced in E.Coli is a single, non-glycosylated polypeptide chain containing 235 amino acids (1-215 a.a.) and having a molecular mass of 26.5kDa. GRXB is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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

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