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## Product Data Sheet

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Product Name: GOR E.Coli  
 Cat. No.: GP21706  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Glutathione reductase; GR; GRase; gor; b3500; JW3467.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMTKHYDY IAIGGGSGGI ASINRAAMYG QKCALIEAKE LGGTCVNVGC VPKKVMWHAA QIREAIHMYG PDYGFDTTIN KFNWETLIAS RTAYIDRIHT SYENVLGKNN VDVIKGFARF VDAKTLEVNG ETITADHILI ATGGRPSHPD IPGVEYGIDSDGFFALPALP ERVAVVGAGY IAVELAGVIN GLGAKTHLFV RKHAPLRSFD PMISETLVEV MNAEGPQLHT NAIPKAVVKN TDGSLTLELE DGRSETVDCL IWAIGREPAN DNINLEAAGV KTNEKGYIVV DKYQNTNIEG IYAVGDNTGA VELTPVAVAA GRRLSERLFN NKPDEHLDYSNIPTVVFVSH PIGTVGLTEP QAREQYGDDQ VKVYKSSFTA MYTAVTTHRQ PCRMKLVCVG SEEKIVGIHG IGFGMDEMLQ GFAVALKMGA TKKDFDNTVA IHPTAAEEFV TMR.		
Formulation	The GOR solution (1mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 10% glycerol, 0.1M NaCl and 1mM DTT.		

### Introduction

Glutathione reductase (Gor) is a member of the class-I pyridine nucleotide disulfide oxidoreductase family. The main role of the Gor protein is to uphold high levels of reduced glutathione in the cytosol. With the associated oxidation of NADPH, Gor transforms oxidized glutathione to the reduced form. The active site of the Gor protein is a redox-active disulfide bond.

### Biological Activity

The specific activity is > 52 units/ml. One unit will reduce 1.0 umol of oxidized glutathione per minute at pH 7.5 at 25°C .

### Stability

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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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

GOR E.Coli Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 473 amino acids (1-450) and having a molecular mass of 51.2kDa. GOR is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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