Bacterial Recombinant GOR

CATALOG #: 6380-100 100 µg

ALTERNATE NAMES: Glutathione oxidoreductase, ECK3485, gorA, JW3467.

SOURCE: E.Coli

PURITY: > 90% by SDS - PAGE

MOL. WEIGHT: 51.2 kDa (473 aa, 1-450 aa + NT His-Tag)

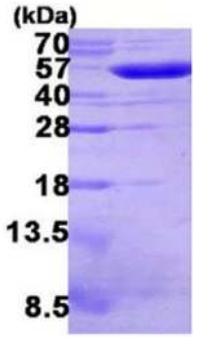
FORMULATION: 1 mg/ml solution in 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.1 M NaCl and 1 mM DTT

STORAGE CONDITIONS:
Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

DESCRIPTION:
Gor, also known as Glutathione reductase, belongs to the class-I pyridine nucleotide disulfide oxidoreductase family. The main function of this protein is to maintain high levels of reduced glutathione in the cytosol. With the concomitant oxidation of NADPH, Glutathione reductase transforms oxidized glutathione to the reduced form.

AMINO ACID SEQUENCE:
MGSSHHHHHH SSGLVPRGSH MGSMTKHYDY IAIGGGSGGI ASINRAAMYG QKCALIEAKE LGGTCVNVGC VPKKVMWHAA QIREAIHMYG PDYGFDTTIN KFNWETLIAS RTAYIDRIHT SYENVLGKNN VDVIKGFARF VDAKTLEVNG ETITADHILI ATGGRPSHPD IPGVEYGIDS DGFFALPALP ERVAVVGAGY IAVELAGVIN GLGAKTHLFV RKHAPLRSFD PMISETLVEV MNAEGPQLHT NAIPKAVVKN TDGSLTLELE DGRSETVDCL IWAIGREPAN DNINLEAAGV KTNEKGYIVV DKYQNTNIEG IYAVGDNTGA VELTPVAVAA GRRLSERLFN NKPDEHLDYS NIPTVVFSHP PIGTVGLTEP QAREQYGDDQ VKVYKSSFTA MYTAVTTHRQ PCRMKLVCVG SEEKIVGIHG IGFGMDEMLQ GFAVALKMGA TKKDFDNTVA IHPTAAEEFV TMR

BIOLOGICAL ACTIVITY:
Specific activity: > 52 unit/ml. One unit will reduce 1.0 µmol of oxidized glutathione per minute at pH 7.5 at 25°C.



15% SDS-PAGE (3ug)

E. Coli Recombinant GOR

RELATED PRODUCTS:

- Glutathione (GSH/GSSG/Total) Assay Kit **(Cat. No. K264-100)**
- Glutathione Colorimetric Assay Kit **(Cat. No. K261-100)**
- Glutathione Fluorometric Assay Kit **(Cat. No. K251-100)**
- Glutathione Peroxidase Activity Assay Kit **(Cat. No. K762-100)**
- Glutathione Reductase Activity Assay Kit **(Cat. No. K761-100)**
- GST Colorimetric Activity Assay Kit **(Cat. No. K263-100)**
- GST Fluorometric Activity Assay Kit **(Cat. No. K260-100)**
- Human Recombinant GSR **(Cat # 6352-50)**
- Human Recombinant GSTA1 **(Cat # 6346-100)**
- Human Recombinant GSTM2 **(Cat # 6350-100)**
- Human Recombinant GSTP1 **(Cat # 6347-100)**
- Mouse Recombinant GSTM1 **(Cat # 6349-100)**

FOR RESEARCH USE ONLY! Not to be used in humans.