

Recombinant e.coli grxB protein

Catalog Number: ATGP1040

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-215aa

UniProt No.

P0AC59

NCBI Accession No.

NP_415582

Alternative Names

glutaredoxin 2 (Grx2), glutaredoxin 2, Grx2, bA101E13.1, CGI-133, GRLX2

PRODUCT SPECIFICATION

Molecular Weight

26.5 kDa (235aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 50mM NaCl

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

GrxB (Glutaredoxin-2) belongs to the glutaredoxin family. Glutaredoxins are small redox enzymes of approximately one hundred amino-acid residues that use glutathione as a cofactor. Glutaredoxins are oxidized by substrates, and reduced non-enzymatically by glutathione. This protein involved in reducing some disulfides in a coupled system with glutathione reductase. It does not act as hydrogen donor for ribonucleotide reductase. Recombinant E. coli grxB protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

MGSSHHHHHHH SSGLVPRGSH MKLYIYDHCP YCLKARMIFG LKNIPVELHV LLNDDAETPT RMVGQKQVPI LQKDDSRYP
ESMDIVHYVD KLDGKPLL TG KRSPAIEEWL RKNVNGYANKL LLPRFAKSAF DEFSTPAARK YFVDKKEASA GNFADLLAHS
DGLIKNISDD LRALDKLIVK PNAVNGELSE DDIQLFPLL NTLVAGINW PSRVADYRDN MAKQTQINLL SSMAI

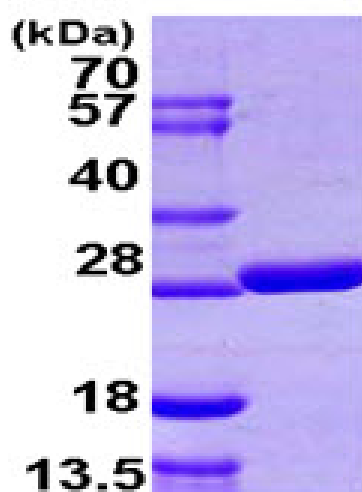
General References

Holmgren A, et al. (2004) Antioxid. Redox. Signal. 6 (1): 63-74.

Lopez-Maury L, et al. (2009) J Bacteriol. 191(11):3534-43.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)