

# Recombinant human Glutaredoxin 1/GLRX1 protein

Catalog Number: GRX0904

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-106aa

### UniProt No.

P35754

### NCBI Accession No.

NP\_002055.1

### Alternative Names

GLRX, GRX, GRX1, Thioltransferase-1, TTase-1, Glrx1, Glutaredoxin, Glutaredoxin1, Grx 1, MGC117407, Thioltransferase, Thioltransferase 1, Thioltransferase1, Ttase, TTase 1, TTase1.

## PRODUCT SPECIFICATION

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### Molecular Weight

11.7 kDa (106aa) 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

### Purity

> 95% by SDS-PAGE

### Tag

Non-Tagged

### 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

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### Description

Description: Glutaredoxin (GRX), also known as thioltransferase, is member of the thiol-disulfide oxidoreductase family. Glutaredoxin catalyzes the reversible reduction of protein-glutathionyl mixed disulfides to free sulfhydryl groups through a monothiol mechanism. Mammalian Glutaredoxin is known to have two isoforms, GRX1 and GRX2. GRX1 is a cytosolic protein, whereas GRX2 is localized both in the mitochondria and nucleus. Glutaredoxin-1 may be involved in a various cellular events such as signal transduction, stress response, and metabolic

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regulation by regulating the redox status of cellular proteins. Recombinant human Glutaredoxin1 protein was expressed in *E. coli* and purified by using conventional chromatography techniques.

## Amino acid Sequence

MAQEFVNCKI QPGKVVVFIK PTCPYCRRRAQ EILSQLPIKQ GLLEFVDITA TNHTNEIQDY LQQLTGARTV PRVFIGKDCI  
GGCSDLVSLQ QSGELLTRLK QIGALQ

## General References

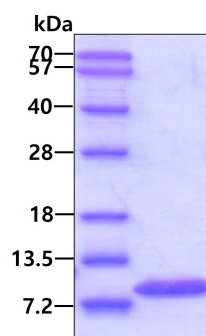
Reynaert NL., et al. (2006) Proc Natl Acad Sci U S A. 103(35):13086-91.

Kanda M., et al. (2006) J Biol Chem. 281(39):28518-28.

## DATA

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### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.