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Recombinant human Glutaredoxin 1/GLRX1 protein

Catalog Number: GRX0904

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-106aa

UniProt No.

P35754

NCBI Accession No.

NP 002055.1

Alternative Names

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

PRODUCT SPECIFICATION

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

Description

Description: Glutaredoxin (GRX), also known as thioltransferase, is member of the thiol-disulfide oxidoreductase family. Glutraredoxin catalyzes the reversible reduction of protein-glutathionyl mixed disulfides to free sulfhydryl groups though 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

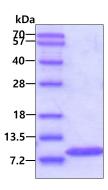
MAQEFVNCKI QPGKVVVFIK PTCPYCRRAQ EILSQLPIKQ GLLEFVDITA TNHTNEIQDY LQQLTGARTV PRVFIGKDCI GGCSDLVSLQ QSGELLTRLK QIGALQ

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

SDS-PAGE



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

