

# Recombinant human Glutaredoxin 5/GLRX5 protein

Catalog Number: ATGP0544

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-157aa

### UniProt No.

Q86SX6

### NCBI Accession No.

NP\_057501

### Alternative Names

Glutaredoxin-related protein 5 mitochondrial, Monothiol glutaredoxin-5, Glutaredoxin 5 homolog, GLRX5, C14orf87, PR01238, GRX5

## PRODUCT SPECIFICATION

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### Molecular Weight

18.8 kDa (177aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl

### Purity

> 85% 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

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### Description

GLRX5 is small redox enzymes of approximately one hundred amino-acid residues which uses glutathione as a cofactor. This protein is oxidized by substrates, and reduced non-enzymatically by glutathione. It is involved in the biogenesis of iron-sulfur clusters, which are required for normal iron homeostasis. Recombinant human GLRX5 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

<MGSSHHHHH SSGLVPRGSH> MSGSLGRAAA ALLRWGRGAG GGGLWGPVGR AAGSGAGGGG SAEQLDALVK  
KDKVVVFLKG TPEQPQCGFS NAVVQILRLH GVRDYAAYNV LDDPELRQGI KDYSNWPTIP QVYLNGEFVG GCDILLQMHQ  
NGDLVEELKK LGIHSALLDE KKDQDSK

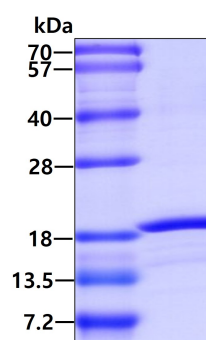
## General References

Holmgren A., et al. (1988) FEMS Microbiol. Rev. 4 (4): 271-297.  
Holmgren A., et al. (1988) Biochem. Soc. Trans. 16 (2): 95-96.

## DATA

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### SDS-PAGE



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