

# Recombinant human Thioredoxin-2 protein

Catalog Number: TRX0801

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

60-166aa

### UniProt No.

Q99757

### NCBI Accession No.

NP\_036605

### Alternative Names

MTRX, TRX2, MT-TRX, Thioredoxin2, mitochondrial thioredoxin, thioredoxin 2 precursor, Thioredoxin mitochondrial, TRX 2, TXN 2, TXN2, Thioredoxin-2

## PRODUCT SPECIFICATION

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### Molecular Weight

11 kDa (108aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4)

### Purity

> 95% by SDS-PAGE

### Biological Activity

Specific activity is >40 A650/cm/min/mg, obtained by measuring the increase of insulin precipitation in absorbance at 650 nm resulting from the reduction of insulin.

### Tag

Non-Tagged

### Application

Enzyme Activity, 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

Thioredoxin (Trx) is a low molecular weight redox protein. Trx contains a redox active disulfide/dithiol group within the conserved Cys-Gly-Pro-Cys active site. The Thioredoxin2 may play important roles in the regulation of

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the mitochondrial membrane potential and in protection against oxidant-induced apoptosis. Recombinant Thioredoxin2 was expressed in *E. coli* and purified by using conventional chromatography techniques.

### Amino acid Sequence

MTTFNIQDGP DFQDRVNSE TPVVVDFHAQ WCGPCKILGP RLEKMVAKQH GKVVMAKVDI DDHTDLAIEY EVSAVPTVLA  
MKNQDVVDKF VGIKDEDQLE AFLKKLIG

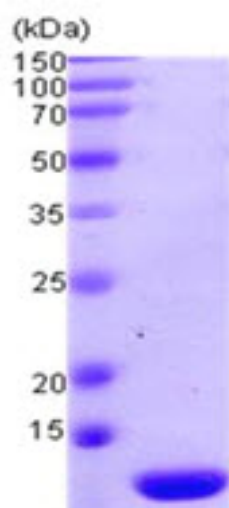
### General References

Wang Z., et al. (2007). *Rapid Commun Mass Spectrom.* 21(22):3658-66.

Zhang H., et al. (2007). *Arch Biochem biophys.* 465(1):119-26.

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)