

Recombinant human Thioredoxin-2 protein

Catalog Number: TRX0801

PRODUCT INFORMATION

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

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

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 DFQDRVVNSE TPVVVDFHAQ WCGPCKILGP RLEKMTAKQH GKVVMAKVDI DDHTDLAIEY EVSAVPTVLA
MKNGDVVDKF VGIKDEDQLE AFLKKLIG

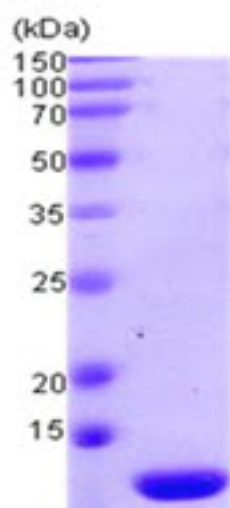
General References

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)