

Recombinant E.coli trxA protein

Catalog Number: ATGP0549

PRODUCT INFORMATION

Expression system

E.coli

Domain

2-109aa

UniProt No.

W8TGE9

NCBI Accession No.

ACB04810

Alternative Names

Thioredoxin 1, TrxA1, TrxA2

PRODUCT SPECIFICATION

Molecular Weight

12.8 kDa (117aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT

Purity

> 95% by SDS-PAGE

Biological Activity

Specific activity is >70 A650/cm/min/mg, obtained by measuring the increase of insulin precipitation in absorbance at 650 nm resulting from the reduction of insulin.

Tag

His-Tag

Application

SDS-PAGE, Enzyme Activity

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 1 (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. It is involved in the first unique step in DNA synthesis. Trx also provides control over a number of transcription factors affecting cell proliferation and death through a

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mechanism referred to as redox regulation. Recombinant E. coli TXN protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

MHHHHHMGSGDKIIHLTDDSFDTDVLKADGAILVDFWAEWCGPCKMIAPILDEIADEYQGKLTVAKLNIDQNPGTAPKYGIRGIPTLLLFKNGEVAATKV GALS~~KG~~QLKEFLDANLA

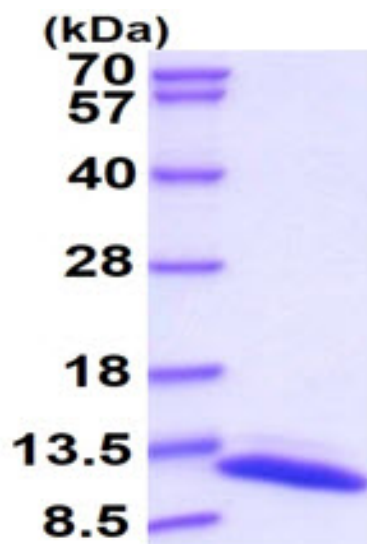
General References

Holmgren A., et al. (1989) J Biol Chem. 264(24):13963-6.

Hacquot JP., et al. (1990) Biochem Biophys Res Commun. 173(3):1375-81.

DATA

SDS-PAGE



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

15%SDS-PAGE(3ug)