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# Recombinant E.coli trxA protein

Catalog Number: ATGP0549

#### PRODUCT INFORMATION

### **Expression system**

E.coli

#### **Domain**

2-109aa

#### UniProt No.

W8TGF9

#### **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**

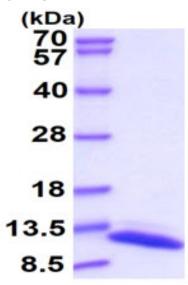
MHHHHHHMGS DKIIHLTDDS FDTDVLKADG AILVDFWAEW CGPCKMIAPI LDEIADEYQG KLTVAKLNID QNPGTAPKYG IRGIPTLLLF KNGEVAATKV GALSKGQLKE FLDANLA

#### **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**





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

15%SDS-PAGE(3ug)