

## AR09459PU-N

## E. coli Thioredoxin-1 (TRX1) (2-109, His-tag) - Purified

**Alternate names:**

ECDH10B3970, TRX-1, TRXA, Thioredoxin 1

**Quantity:**

50 µg

**Concentration:**

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

**Background:**

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 mechanism referred to as redox regulation.

**Uniprot ID:**

[B1X9Z5](#)

**NCBI:**

[ACB04810](#)

**GeneID:**

[6061668](#)

**Species:**

E. coli

**Source:**

E. coli

**Format:**

**State:** Liquid purified protein

**Purity:** >85% by SDS – PAGE

**Buffer System:** 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1 mM DTT

**Description:**

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

**AA Sequence:**

MHHHHHMGS DKIIHLTDDS FDTDVLKADG AILVDFWAEW CGPCKMIAP I LDEIADEYQG  
KLTVAKLNI D QNPGTAPKYG IRGIPTLLLF KNGEVAATKV GALS KGLKE FLDANLA

**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.

**Molecular weight:** 12.8 kDa (119 aa), confirmed by MALDI-TOF

**Storage:**

Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

**Pictures:**

Recombinant E. coli Thioredoxin 1, 2-109  
aa, His-tagged: 15% SDS-PAGE (3 ug)

