

**AR09459PU-L****E. coli Thioredoxin-1 (TRX1) (2-109, His-tag) - Purified**

<b>Alternate names:</b>	ECDH10B3970, TRX-1, TRXA, Thioredoxin 1
<b>Quantity:</b>	0.25 mg
<b>Concentration:</b>	0.5 mg/ml (determined by Absorbance at 280nm)
<b>Background:</b>	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.
<b>Uniprot ID:</b>	<a href="#">B1X9Z5</a>
<b>NCBI:</b>	<a href="#">ACB04810</a>
<b>GeneID:</b>	<a href="#">6061668</a>
<b>Species:</b>	E. coli
<b>Source:</b>	E. coli
<b>Format:</b>	<b>State:</b> Liquid purified protein <b>Purity:</b> >85% by SDS – PAGE <b>Buffer System:</b> 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1 mM DTT
<b>Description:</b>	Recombinant E.coli TXN protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. <b>AA Sequence:</b> <u>MHHHHHMG</u> S DKIIHLTDDS FDTDVLKADG AILVDFWAEW CGPCKMIAPI LDEIADYQG KLTVAKLNID QNPGTAPKYG IRGIPTLLLF KNGEVAATKV GALSQGQLKE FLDANLA <b>Biological Activity:</b> 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. <b>Molecular weight:</b> 12.8 kDa (119 aa), confirmed by MALDI-TOF
<b>Storage:</b>	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)

