

E. Coli Recombinant Thioredoxin 1

CATALOG #:	6329-50	50 µg
ALTERNATE NAMES:	dasC, fipA, tsnC	
SOURCE:	E.Coli	
PURITY:	> 85% by SDS - PAGE	
MOL. WEIGHT:	12.9 kDa (119 aa, 2-109 aa + His Tag (NT))	
FORMULATION:	0.5 mg/ml solution in 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol and 1mM DTT.	

STORAGE CONDITIONS:

Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

DESCRIPTION:

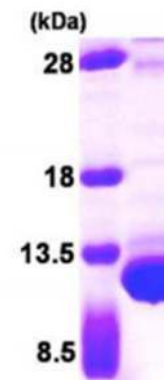
Thioredoxin (Trx) is a low molecular weight redox protein. Trx contains a redox active disulfide/dithiol group within the conserved Cys-Gly-Pro-Cys active site. It is involved in the first unique step in DNA synthesis. Trx also provides control over a number of transcription factors affecting cell proliferation and death through a mechanism referred to as redox regulation. It has also recently been found to play a role in cell-to-cell communication.

AMINO ACID SEQUENCE:

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

BIOLOGICAL ACTIVITY:

Specific activity is 16-18 A650/min/mg, obtained by measuring the increase of insulin precipitation in absorbance at 650 nm resulting from the reduction of insulin.



15% SDS-PAGE (3ug)

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RELATED PRODUCTS:

- Thioredoxin Reductase Assay kit (Cat. No. K763-100)
- Human Recombinant Thioredoxin 1 (Cat. No. 6305-100)
- Human Recombinant Thioredoxin 2 (Cat. No. 6318-100)
- Human Recombinant TXNRD1 (Cat. No. 6330-100)
- E. Coli Recombinant TRXB (Cat. No. 6331-100)

FOR RESEARCH USE ONLY! Not to be used in humans.