

**Thioredoxin 1, 2-109aa, E.coli, His tag, E.coli**

**Cat.NO.: TP04203**

3th Edition

**Synonyms:**dasC, fipA, tsnC,

**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 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.

**Form:**Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 10% glycerol, 1mM DTT.

**Molecular Weight:**12.9 kDa (119aa), confirmed by MALDI-TOF

**Sequences:**

MHHHHHMGSDKIIHLTDDSFDTDVLKADGAILVDFWAEWCGPCKMIAPILDEIADEYQGKLTVAKLNIDQNPGTAP  
KYGIRGIPTLLLFKNGEVAATKVGALSKGQLKEFLDANLA

**Purity:**> 95% by HPLC

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

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**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.