

**Thioredoxin-1 Human, Recombinant, E.coli**

**Cat.NO.: TP04204**

3th Edition

**Synonyms:**TRX1, TRX2, Thioredoxin-1, Thioredoxin I, TR-I, Thioredoxin-2, Thioredoxin-1, ADF, Surface associated sulphhydryl protein, TXN protein, ATL derived factor, DKFZp686B1993, MGC61975, SASP, Thioredoxin, TRDX, TRX, TRX 1, TXN,

**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. Recombinant human thioredoxin-1 was overexpressed in E. coli and purified by using conventional chromatography techniques

**Form:**Liquid. In Phosphate buffer saline(PBS), pH 7.4

**Molecular Weight:**11.7 kDa (105 aa), confirmed by MALDI-TOF.

**Sequences:**

MVKQIESKTAFQEALDAAGDKLVVVD FSATWCGPCKMIKPFHSLSEKYSNVIFLEVDVDDCQDVASECEVKCMPT  
FQFFKKGQKVGEFSGANKEKLEATINELV

**Purity:**> 95% by HPLC

**Concentration:**1 mg/ml (determined by BCA assay).

**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.