

Recombinant human Thioredoxin-1 protein

Catalog Number: TRX0501

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-105aa

UniProt No.

P10599

NCBI Accession No.

NP_003320

Alternative Names

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

PRODUCT SPECIFICATION

Molecular Weight

11.7 kDa (105aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4)

Purity

> 90% by SDS-PAGE

Biological Activity

Specific activity is >150 A650/cm/min/mg, obtained by measuring the increase of insulin precipitation in absorbance at 650 nm resulting from the reduction of insulin.

Tag

Non-Tagged

Application

SDS-PAGE, Enzyme Activity

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Thioredoxin (Trx) is a low molecular weight redox protein. Trx contains a redox active disulfide/dithiol group

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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

Amino acid Sequence

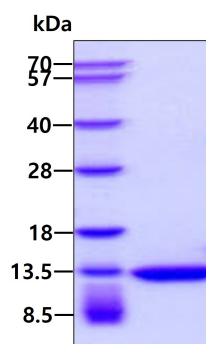
MVKQIESKTA FQEALDAAGD KLVVDFSAT WCGPCKMIKP FFHSLSEKYS NVIFLEVDVD DCQDVASECE VKCMPTFQFF
KKGQKVGFEFS GANKEKLEAT INELV

General References

Pigiet VP., et al.(1986) Proc. Natl.Acad.Sci. uSA 83(20):7643-7.
Lundstrom J., et al. (1990) J.Biol.Chem. 265(16):9114-20.
Laurent TC., et al. (1964) J Biol Chem. 239:3436-44.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.