

Recombinant Human TXN (C61S/C72S) Protein

Cat. No. TXN-004H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active recombinant human thioredoxin 1 (C61S/C72S mutant) without tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	The protein encoded by this gene acts as a homodimer and is involved in many redox reactions. The encoded protein is active in the reversible S-nitrosylation of cysteines in certain proteins, which is part of the response to intracellular nitric oxide. This protein is found in the cytoplasm. Two transcript variants encoding different isoforms have been found for this gene.
Molecular Mass	11.7 kDa
Purity	≥85% estimated by SDS-PAGE
Unit Definition	One unit is defined as the amount of enzyme required to produce 1 nmol of eosin per minute at 37 centigrade in 50 mM Tris-HCl, pH 7.5, with 0.2 mg/ml BSA, and 1 mM EDTA containing 8.3 μM eosin-labeled insulin, 250 μM NADPH, and 0.2 U/ml thioredoxin reductase.
Stability	≥ 6 months
Storage	4 centigrade

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Storage Buffer Lyophilized in 50 mM Tris-HCl, pH 7.5, with 1 mM EDTA

GENE INFORMATION

Gene Name TXN thioredoxin [*Homo sapiens (human)*]

Official Symbol TXN

Synonyms TXN; thioredoxin; TRX; TRDX; TRX1; Trx80; thioredoxin; ADF; ATL-derived factor; SASP; TXN delta 3; surface-associated sulphhydryl protein; testicular tissue protein Li 199; thioredoxin delta 3

Gene ID 7295

mRNA Refseq NM_003329

Protein Refseq NP_003320

MIM 187700

UniProt ID P10599

Thioredoxin 1 Activity Thioredoxin 1 (Mouse, recombinant) activity was determined using Thioredoxin Fluorescent Activity Assay Kit with 0.54 µg/mL eosin-labeled insulin as a substrate.

SDS-PAGE of Thioredoxin 1 (C61S/C72S mutant)

Lane 1: MW Markers
 Lane 2: Thioredoxin 1 (C61S/C72S mutant) (2 µg)
 Lane 3: Thioredoxin 1 (C61S/C72S mutant) (4 µg)

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