

## Recombinant Human TXN (C61S/C72S) Protein

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

### SPECIFICATION

<b>Product Overview</b>	Active recombinant human thioredoxin 1 (C61S/C72S mutant) without tag was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	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.
<b>Molecular Mass</b>	11.7 kDa
<b>Purity</b>	≥85% estimated by SDS-PAGE
<b>Unit Definition</b>	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.
<b>Stability</b>	≥ 6 months
<b>Storage</b>	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

**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)

**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.

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