

Recombinant Human TXN Protein

Cat. No. TXN-018H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mutant Human TXN protein (Mutant C61S/C72S) without tag was expressed in E. coli. This is a mutant form of human thioredoxin, which lacks the structural cysteine residues C61 and C72, which are responsible for oxidative inactivation and dimer formation. The active site: C31 and C34.
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.
Form	Lyophilized
Stability	≥ 6 months
Storage	4 centigrade
Storage Buffer	50 mM tris-HCl, pH 7.5, 1 mM EDTA
Reconstitution	Reconstitute with 100 µL H ₂ O. This gives a solution of 210 µM thioredoxin. The protein may partly be oxidized and can be reactivated by addition of a 5-fold molar

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excess of DTT or by use of Reductacryl® reagent.

GENE INFORMATION

Gene Name	TXN thioredoxin [Homo sapiens (human)]
Official Symbol	TXN
Synonyms	TXN; thioredoxin; TRX; TRDX; TRX1; 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_001244938
Protein Refseq	NP_001231867
MIM	187700
UniProt ID	P10599

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