

Recombinant Human TXN, His-tagged

Cat. No. TXN-31511TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Thioredoxin / TRX protein fused to a 6X His tag at the N terminus, Amino acids 1-105, molecular weight: 14 kDa;
Species	Human
Source	E.coli
ProteinLength	1-105 a.a.
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.
Conjugation	HIS
Biological activity	Specific activity is 7-10 A650/min/mg, obtained by measuring the increase of insulin precipitation in absorbance at 650 nm resulting from the reduction of insulin.
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: PBS, pH 7.4

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Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Store in the dark. Avoid repeated freeze / thaw cycles.
Sequence Similarities	Belongs to the thioredoxin family. Contains 1 thioredoxin domain.
Full Length	Full L.
GENE INFORMATION	
Gene Name	TXN thioredoxin [Homo sapiens]
Official Symbol	TXN
Synonyms	TXN; thioredoxin; TRX;
Gene ID	7295
mRNA Refseq	NM_001244938
Protein Refseq	NP_001231867
MIM	187700
Uniprot ID	P10599
Chromosome Location	9q31
Pathway	Folic Acid Network, organism-specific biosystem; Folic Acid Network, organism-specific biosystem; Immune System, organism-specific biosystem; Inflammasomes, organism-specific biosystem; Innate Immune System, organism-specific biosystem;

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Function

electron carrier activity; peptide disulfide oxidoreductase activity; protein binding;
protein disulfide oxidoreductase activity;

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