

Recombinant Human TXN

Cat. No. TXN-31509TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length protein; Human Thioredoxin.
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.
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: None Constituents: PBS, pH 7.4
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Sequences of amino acids	MVKQIESKTA FQEALDAAGD KLVVDFSAT WCGPCKMIKPFHSLSEKYS NVIFLEVDVD DCQDVASECE VKCMPTFQFFKKGQKVGFEFS GANKEKLEAT INELV

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

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