

Active Recombinant Human TXN Protein

Cat. No. TXN-020H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TXN protein 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.
Form	Lyophilized
Bio-activity	Activity can be measured with the thioredoxin-dependent reduction of insulin using rat recombinant thioredoxin reductase. The test mixture should contain 160 μ M insulin and 0.2 mM NADPH in 0.1 M potassium phosphate, 2mM EDTA, pH 7.0. In the presence of 5 μ M human thioredoxin, 7 nM of mammalian thioredoxin reductase will give a decrease of absorbtion at 340 nm of 0.100 min.
Stability	$\geq$ 6 months
Storage	4 centigrade
Storage Buffer	50 mM tris-Cl, pH 7.5, 1 mM EDTA

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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 sulphydryl 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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