

## Active Recombinant Human TXN Protein

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

### SPECIFICATION

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

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## GENE INFORMATION

<b>Gene Name</b>	TXN thioredoxin [ Homo sapiens (human) ]
<b>Official Symbol</b>	TXN
<b>Synonyms</b>	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
<b>Gene ID</b>	7295
<b>mRNA Refseq</b>	NM_001244938
<b>Protein Refseq</b>	NP_001231867
<b>MIM</b>	187700
<b>UniProt ID</b>	P10599

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