

## Recombinant Human TXN Protein, His\Avi-tagged

Cat. No. TXN-220H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Biotinylated Recombinant Human Thioredoxin is produced by E.coli. The target gene encoding M1- V105 is expressed with a Avi & 6His tag at the C terminus.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	Thioredoxin (TXN) is a small ubiquitous protein in all cells that plays an important role in cellular redox reactions. It is secreted by lymphocytes, hepatocytes, fibroblasts, and several tumor cells. TXN is up-regulated under stress conditions such as hypoxia, elevated hydrogen peroxide concentrations, photochemical oxidative stress, and viral and bacterial infections. TXN modulates the growth factor activities, and the antioxidant properties, as well as act as a cofactor that provides reducing equivalents, and transcriptional regulation.
<b>Form</b>	Lyophilized from a 0.2 um filtered solution of 2umM Na <sub>2</sub> HPO <sub>4</sub> , 2umM NaH <sub>2</sub> PO <sub>4</sub> , pH7.4.
<b>Molecular Mass</b>	Predicted Molecular Weight: 15.2kDa Apparent Molecular Weight: 14.4-18.4kDa, reducing conditions.
<b>AA Sequence</b>	M1-V105
<b>Endotoxin</b>	Less than 0.1 ng/ug (1 EU/ug)

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<b>Purity</b>	>95%
<b>Storage</b>	<p>Lyophilized protein should be stored at &lt; -20 centigrade, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at 4-7 centigrade for 2-7 days. Aliquots of reconstituted samples are stable at &lt; -20 centigrade for 3 months.</p> <p>Always centrifuge tubes before opening. Do not mix by vortex or pipetting.</p>
<b>Reconstitution</b>	<p>It is not recommended to reconstitute to a concentration less than 100µg/ml.</p> <p>Dissolve the lyophilized protein in distilled water.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
<b>Quality Statement</b>	Purity: greater than 95% as determined by reducing SDS-PAGE.
<b>Shipping</b>	<p>The product is shipped on dry ice pack.</p> <p>Upon receipt, store it immediately at the temperature listed below.</p>

## GENE INFORMATION

<b>Gene Name</b>	TXN thioredoxin [ <a href="#">Homo sapiens (human)</a> ]
<b>Official Symbol</b>	TXN
<b>Synonyms</b>	Thioredoxin1; Thioredoxin-1; Trx1; TRX; TRDX; TRX1; Trx80
<b>Gene ID</b>	7295
<b>mRNA Refseq</b>	<a href="#">NM_001244938.2</a>
<b>Protein Refseq</b>	<a href="#">NP_001231867.1</a>

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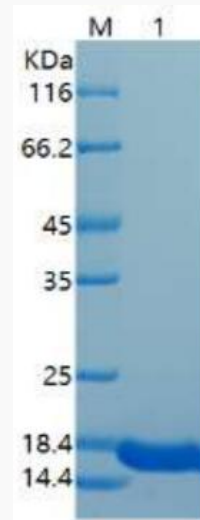
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**MIM** 187700

**UniProt ID** P10599

**SDS-PAGE**



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