

Recombinant Human TXN Protein, His\Avi-tagged

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	E.coli
Description	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.
Form	Lyophilized from a 0.2 um filtered solution of 2umM Na ₂ HPO ₄ , 2umM NaH ₂ PO ₄ , pH7.4.
Molecular Mass	Predicted Molecular Weight: 15.2kDa Apparent Molecular Weight: 14.4-18.4kDa, reducing conditions.
AA Sequence	M1-V105
Endotoxin	Less than 0.1 ng/ug (1 EU/ug)

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

GENE INFORMATION

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

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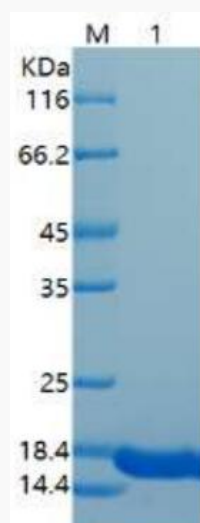
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MIM 187700

UniProt ID P10599

SDS-PAGE



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