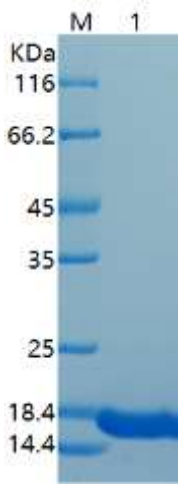
Biotinylated Recombinant Human Thioredoxin/TXN (C-Avi&His)

Catalog No: BP092

Description	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.
Expression System	*E.coli*
Alternative name	Thioredoxin1; Thioredoxin-1; Trx1; TXN; TXN1
Accession No.	P10599
Predicted Molecular Weight	15.2kDa
Apparent Molecular Weight	14.4-18.4kDa, reducing conditions.
Quality Control	Purity: greater than 95% as determined by reducing SDS-PAGE. Endotoxin: less than 0.1 ng/μg (1 EU/μg) as determined by LAL test. Biotin:Protein Ratio The biotin to protein ratio is 0.5-1 as determined by the HABA assay.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20mM Na2HPO4, 20mM NaH2PO4, pH 7.4.
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.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
Storage	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Background	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.

SDS-PAGE



M: Marker

1: Sample in reducing conditions