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**Product Data Sheet**


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Product Name: TXN Mouse  
 Cat. No.: GP26354  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	withIcePacks
Synonyms	TRX1, TRX2, Thioredoxin-1, Thioredoxin I, TR-I, Thioredoxin-2, Thioredoxin-1, ADF, Surface associated sulphhydryl protein, TXN protein, ATL derived factor, DKFZp686B1993, MGC61975, SASP, Thioredoxin, TRDX, TRX, TRX 1, TXN.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMVKLIES KEAFQEALAA AGDKLVVDF SATWCGPCKM IKPFFHSLCD KYSNVVFLEV DVDDCQDVAA DCEVKCMPTF QFYKKGQKVG EFSGANKEKL EASITEYA.		
Formulation	TXN protein solution (1mg/ml) containing Phosphate Buffered Saline (pH 7.4) and 10% glycerol.		

**Introduction**

Thioredoxin or TRX contains a single disulfide active site and serves as a general protein disulphide oxidoreductase. Thioredoxins are small disulphide-containing redox proteins (within the conserved Cys-Gly-Pro-Cys active site) that are found in all the kingdoms of living organisms. The protein is involved in the first unique step in DNA synthesis; It interacts with a wide range of proteins by a redox mechanism based on reversible oxidation of two cysteine thiol groups to a disulphide, along with the transfer of two electrons and two protons. The net result is the covalent interconversion of a disulphide and a dithiol. It has been suggested that thioredoxin may catalyze the formation of correct disulfides during protein folding because of its ability to act as an efficient oxidoreductant.

**Biological Activity**

Specific activity is >60 A650/cm/min/mg, obtained by measuring the increase of insulin precipitation in absorbance at 650 nm resulting from the reduction of insulin.

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

TXN Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 128 amino acids (1-105 a.a.) and having a molecular mass of 14.1kDa. TXN is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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