

32-13492: TXN Mouse

Application : Functional Assay
TRX1, TRX2, Thioredoxin-1, Thioredoxin I, TR-I, Thioredoxin-2, Thioredoxin-1, ADF, Surface associated
Alternative Name : sulphhydryl protein, TXN protein, ATL derived factor, DKFZp686B1993, MGC61975, SASP, Thioredoxin, TRDX, TRX, TRX 1, TXN.

Description

Source: Escherichia Coli.

Sterile filtered colorless solution.

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.

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.

Product Info

Amount : 2 µg / 10 µg
Purification : Greater than 90.0% as determined by SDS-PAGE.
Content : TXN protein solution (1mg/ml) containing Phosphate Buffered Saline (pH 7.4) and 10% glycerol.
Storage condition : 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.
Amino Acid : MGSSHHHHHH SSGLVPRGSH MGSMVKLIES KEAFQEALAA AGDKLVVVDF SATWCGPCKM
IKPFFHSLCD KYSNVVFLEV DVDDCQDVAA DCEVKCMPTF QFYKKGQKVG EFSGANKEKL
EASITEYA.

Application Note

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.