

TXN1 Yeast

Description: Thioredoxin Yeast Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain having a molecular mass of 12.6kDa.

Catalog #: PRPS-340

Synonyms: Thioredoxin-1, Thioredoxin I, TR-I, Thioredoxin-2, TRX1, TRX2, YLR043C.

For research use only.

Source: Escherichia Coli.

Physical Appearance: Sterile Lyophilized Powder.

Purity: Greater than 95.0% as determined by SDS-PAGE.

Formulation:

Each mg of protein contains 20mM phosphate buffer pH 7.4.

Stability:

TRX although stable at 4°C for 3 weeks, should be stored desiccated below -18°C. Please prevent freeze thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:

It is recommended to reconstitute the lyophilized TRX in sterile 18M-cm H₂O.

Introduction:

Thioredoxins are small disulphide-containing redox proteins (within the conserved Cys-Gly-Pro-Cys active site) that have been found in all the kingdoms of living organisms. Thioredoxin contains a single disulfide active site and serves as a general protein disulphide oxidoreductase. Thioredoxins are involved in the first unique step in DNA synthesis. It interacts with a broad range of proteins by a redox mechanism based on reversible oxidation of two cysteine thiol groups to a disulphide, accompanied by 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. Trx also provides control over a number of transcription factors affecting cell proliferation and death through a mechanism referred to as redox regulation.

Biological Activity:

TRX activity is assayed by measuring the change in absorbance at 650 nm at 25°C using 0.13

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