9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

# TXN2 Yeast

*Thioredoxin-2 Yeast Recombinant*
*RCP2480*

## Product Overview

| | |
|---|---|
| Name | TXN2 Yeast |
| **Description** | |
| Thioredoxin-2 Yeast Recombinant | |
| Accession (Primary) | P22803 |
| **Synonyms** | |
| Thioredoxin-2, TRX2, TRX-2, TXN-2, TXN2. | |
| **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. | |
| **Source** | |
| Escherichia Coli. | |
| **Physical Appearance** | |
| Sterile Lyophilized Powder. | |
| **Formulation** | |
| Each mg of TRX2 protein contains 20mM phosphate buffer pH 7.4. | |
| **Stability** | |
| TXN2 although stable at 4°C for 3 weeks, should be stored desiccated below -18°C. Please prevent freeze thaw cycles. | |
| **Purity** | |
| Greater than 95.0% as determined by SDS-PAGE. | |
| **Biological Activity** | |

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TXN2 activity is assayed by measuring the change in absorbance at 650 nm at 25°C The specific activity was found to be 3 units/mg.

**Solubility**

It is recommended to reconstitute the lyophilized TXN2 in sterile 18MΩ-cm H2O.

**Precautions**

TXN2 Yeast is for research use only and not for use in diagnostic or therapeutic procedures.

## Target Information: ( P22803 )