

## TRXR E.Coli

**Description:** TRXR E.coli Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 321 amino acids(1-321 a.a.) and having a molecular mass of 34.6 kDa. TRXR protein is purified by standard chromatography.

Catalog #:ENPS-514

For research use only.

**Synonyms:** TRXB, TRXR, Thioredoxin Reductase.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile filtered colorless solution.

**Amino Acid Sequence:** MGTTKHSKLL ILGSGPAGYT AAVYAARANL QPVLITGMEK  
GGQLTTTTEV ENWPGDPNDL TGPLLMERMH EHATKFETEI IFDHINKVDL QNRPFRLNGD  
NGEYTCDALI IATGASARYL GLPSEEAFCG RGVSACATCD GFFYRNQKVA VIGGGNTAVE  
EALYLSNIAS EVHLIHRDGD FRAEKILIKR LMDKVENGNI ILHTNRTLEE VTGDQMGVTG  
VRLRDTQNSD NI

**Purity:** Greater than 90% as determined by SDS-PAGE.

**Formulation:**

TRXR E.Coli solution containing 20mM Tris HCl pH-8, 1mM DTT, and 10% glycerol.

**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.

**Usage:**

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

**Introduction:**

TRXR is a ubiquitous enzyme which participates in various cellular processes such as cell growth, p53 activity, and protection against oxidation stress. The mammalian Thioredoxin reductase cleaves thioredoxins as well as non-disulfide substrates such as selenite, lipoic acids, lipid hydroperoxides, and hydrogen peroxide.

**Biological Activity:**

Specific activity is 4-5 units/ml, and was measured in a coupled assay with DTNB and NADPH. The amount of TNB generated by NADPH was measured in absorbance at 412 nm.

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