

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: MGTTKHSEKLL ILGSGPAGYT AAVYAARANL QPVLITGMEK
GGQLTTTTEV ENWPGDPNDL TGPLLMERMH EHATKFETEI IFDHINKVDL QNRPFRNLGD
NGEYTCDALI IATGASARYL GLPSEEAFCG RGVSAACATCD GFFYRNQKVA VIGGGNTAVE
EALYLSNIAS EVHLIHRDGG 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:

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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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