

## Thioredoxin Reductase E.Coli Recombinant

<b>Item Number</b>	rAP-1792
<b>Synonyms</b>	TRXB, TRXR, Thioredoxin Reductase.
<b>Description</b>	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.
<b>Uniprot Accession Number</b>	P0A9P4
<b>Amino Acid Sequence</b>	MGTTKHSKLL ILGSGPAGYT AAVYAARANL QPVLITGMEK GGQLTTTTEV ENWPGDPNDL TGPLLMERMH EHATKFETEI IFDHINKVDL QNRPFRNLNGD NGEYTCDALI IATGASARYL GLPSEEAFFKG RGVSACATCD GFFYRNQKVA VIGGGNTAVE EALYLSNIAS EVHLIHRDGD FRAEKILIKR LMDKVENGNI ILHTNRTLEE VTGDQMGVTG VRLRDTQNSD NIESLDVAGL FVAIGHSPNT AIFEGQLELE NGYIKVQSGI HGNATQTSIP GVFAAGDVMD HIYRQAITS A GTGCMAALDA ERYLDGLADA K.
<b>Source</b>	Escherichia Coli.
<b>Physical Appearance and Stability</b>	Sterile filtered colorless solution. 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.
<b>Formulation and Purity</b>	TRXR E.Coli solution containing 20mM Tris HCl pH-8, 1mM DTT, and 10% glycerol. Greater than 90% as determined by SDS-PAGE.
<b>Application</b>	
<b>Solubility</b>	
<b>Biological Activity</b>	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.
<b>Shipping Format and Condition</b>	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**