

Thioredoxin Reductase E.Coli Recombinant

Item Number	rAP-1792
Synonyms	TRXB, TRXR, Thioredoxin Reductase.
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.
Uniprot Accesion Number	P0A9P4
Amino Acid Sequence	MGTTKHSKLL ILGSGPAGYT AAVYAAARANL QPVLITGMEK GGQLTTTEV ENWPGDPNLD TGPLLIMERMH EHATKFETEI IFDHINKVDL QNRPFRLNGD NGEYTCDALI IATGASARYL GLPSEEAFKG RGV SACATCD GFFYRNQKVVA VIGGGNTAVE EALYLSNIAS EVHLIHRRDG FRAEKILIKR LMDKVENGNI ILHTNRTLEE VTG DQMVGVTG VRLRDTQNSD NIESLDVAGL FVAIGHSPNT AIFEGQLELE NGYIKVQSGI HGNATQTSIP GVFAAGDVMD HIYRQAITSA GTGCMAALDA ERYLDGLADA K.
Source	Escherichia Coli.
Physical Appearance and Stability	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.
Formulation and Purity	TRXR E.Coli solution containing 20mM Tris HCl pH-8, 1mM DTT, and 10% glycerol. Greater than 90% as determined by SDS-PAGE.
Application	
Solubility	
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.
Shipping Format and Condition	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**