

32-2867: TRXR Recombinant Protein

Alternative Name : TRXB,TRXR,Thioredoxin Reductase.

Description

Source : Escherichia Coli. 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. 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.

Product Info

Amount :	25 µg
Purification :	Greater than 90% as determined by SDS-PAGE.
Content :	TRXR E.Coli solution containing 20mM Tris HCl pH-8, 1mM DTT, and 10% glycerol.
Storage condition :	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.
Amino Acid :	MGTTKHSKLL ILGSGPAGYT AAVYAARANL QPVLITGMEK GGQLTTTTEV ENWPGDPNDL TGPLLMMRMH EHATKFETEI IFDHINKVDL QNRPFRLNGD NGEYTCDALI IATGASARYL GLPSEEAFCG RGVSACATCD GFFYRNQKVA VIGGGNTAVE EALYLSNIAS EVHLIHRDGD FRAEKILIKR LMDKVENGNI ILHTNRTLEE VTGDQMGVTG VRLRDTQNSD NIESLDVAGL FVAIGHSPNT AIFEGQLELE NGYIKVQSGI HGNAQTQSIP GVFAAGDVMD HIYRQAITS A GTGCMAALDA ERYLDGLADA K.

Application Note

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.

