Product information



TRXB, 1-321aa

E.coli, Recombinant, E.coli

Cat. No. IBATGP0540

Full name: Thioredoxin reductase NCBI Accession No.: YP_003044110

Description: TRXB(Thioredoxin reductase) is a ubiquitous enzyme which is involved in many cellular processes such as cell growth, p53 activity, and protection against oxidation stress. The mammalian Thioredoxin reductase reduces thioredoxins as well as non-disulfide substrates such as selenite, lipoic acids, lipid hydroperoxides, and hydrogen peroxide. Recombinant *E.coli* TRXB protein was expressed in *E.coli* and purified by using conventional chromatography techniques.

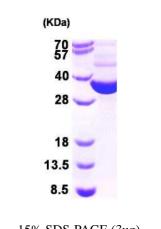
Form: Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 1mM DTT,10% glycerol.

Molecular Weight: 34.6kDa (321aa) confirmed by MALDI-TOF

Purity: > 90% by SDS - PAGE.

Concentration: 1mg/ml (determined by Bradford assay)

Biological activity: Specific activity is > 10 units/mg, and was measured in a coupled assay with DTNB and NADPH. The amount of TNB generated by NADPH was measured in absorbance at 412nm.



15% SDS-PAGE (3ug)

Sequences of amino acids:

MGTTKHSKLL ILGSGPAGYT AAVYAARANL QPVLITGMEK GGQLTTTTEV ENWPGDPNDL TGPLLMERMH EHATKFETEI IFDHINKVDL QNRPFRLNGD NGEYTCDALI IATGASARYL GLPSEEAFKG RGVSACATCD GFFYRNQKVA VIGGGNTAVE EALYLSNIAS EVHLIHRRDG FRAEKILIKR LMDKVENGNI ILHTNRTLEE VTGDQMGVTG VRLRDTQNSD NIESLDVAGL FVAIGHSPNT AIFEGQLELE NGYIKVQSGI HGNATQTSIP GVFAAGDVMD HIYRQAITSA GTGCMAALDA ERYLDGLADA K

General references:

Faulkner MJ., et al. (2008) Proc Natl Acad Sci U S A. 105(18):6735-40.

Takahata M., et al. (2008) J Biochem. 143(4):467-73.

Thelander, L. (1967) Journal of Biological Chemistry, 242, 852-859.

Moore, E. C., and Reichard, P., and thelander, L. (1964) Journal of Biological Chemistry, 239, 3445-3452.

Manufactured for:

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



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