

TRXB, 1-321aa, E.coli, E.coli

Cat.NO.: TP04316

3th Edition

Synonyms: Thioredoxin reductase JW0871, ECK0879, Thioredoxin reductase, FAD/NAD(P)-binding, TRXR.

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

Sequences:

MGTTKHSKLLILGSGPAGYTAAVYAARANLQPVLITGMEKGGQLTTTTEVENWPGDPNDLTGPLLMMERMHEHATKF
ETEIIFDHINKVDLQNRPFRLNGDNGEYTCDALIATGASARYLGLPSEEFKGRGVSACATCDGFFYRNQKVAVIGG
GNTAVEEALYLSNIASEVHLIHRDGFRAEKILIKRLMDKVENGNIILHTNRTLEEVTGDQMGVTGVRLRDTQNSDNI
ESLDVAGLFVAIGHSPNTAIFEGQLELENGYIKVQSGIHGNATQTSIPGVFAAGDVM DHIYRQAITSAGTGCM AALDA
ERYLDGLADAK

Purity: > 95% by HPLC

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

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

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.