Recombinant C. elegans trxr-1 Protein, 667 residues

Cat. No. trxr-1-17C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant C. elegans Thioredoxin Reductase 1 (Non-tagged, 667 residues)
Species	C.elegans
ProteinLength	667 residues
Description	Predicted to enable thioredoxin-disulfide reductase activity. Involved in ecdysis, collagen and cuticulin-based cuticle. Predicted to be located in cytosol. Predicted to be active in mitochondrion. Is expressed in several structures, including epithelial cell; intestine; nervous system; pharynx; and vulva. Human ortholog(s) of this gene implicated in amyotrophic lateral sclerosis. Orthologous to human TXNRD1 (thioredoxin reductase 1) and TXNRD3 (thioredoxin reductase 3).
Purity	≥ 95% as judged by gel analysis
Unit definition	1 U of enzyme reduces 1 μmol DTNB per min in 0.5 mL standard DTNB assay containing 2.5 mM DTNB and 0.3 mM NADPH in TE buffer (50 mM Tris-HCl, 2 mM EDTA, pH 7.5)
Applications	DTNB assay; Insulin-coupled Thioredoxin assay; Inhibitor screening; etc.
Notes	Centrifuge the tube briefly before opening the lid.
Concentration	1 mg/mL

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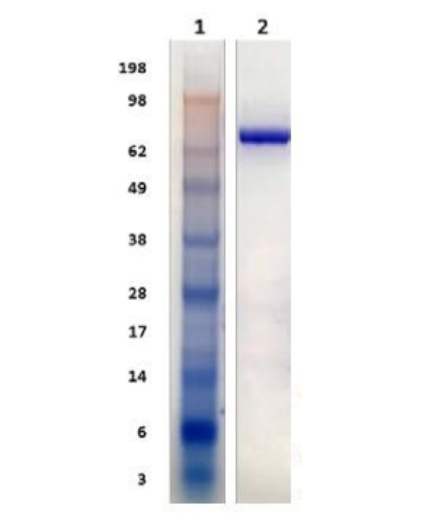
Storage Buffer	TE buffer with 50% glycerol
Shipping	Shipped in cold pack by courier service. Store at -20 centigrade upon delivery.
References	1. Cheng Q, Arnér ES. (2017) Selenocysteine Insertion at a Predefined UAG Codon in a Release Factor 1 (RF1)-depleted Escherichia coli Host Strain Bypasses Species Barriers in Recombinant Selenoprotein Translation. J Biol Chem. 292:5476-5487. 2. Arnér ES, Holmgren A. (2001) Measurement of thioredoxin and thioredoxin reductase. Curr Protoc Toxicol. Chapter 7:Unit 7.4.

GENE INFORMATION

Gene Name	trxr-1 Thioredoxin reductase 1;Thioredoxin-disulfide reductase [Caenorhabditis elegans]
Official Symbol	trxr-1
Synonyms	trxr-1; Thioredoxin reductase 1;Thioredoxin-disulfide reductase
Gene ID	177466
mRNA Refseq	NM_001307310
Protein Refseq	NP_001294239
UniProt ID	Q17745

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Coomassie stained SDS PAGE analysis of 10 µg CeTRXR1.



Lane 1: Molecular weight marker (SeeBlue Plus2)
Lane 2: CeTRXR

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