

Recombinant Yeast TRR1

Cat. No. TRR1-1907Y **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Yeast Thioredoxin Reductase produced in <i>E.coli</i> is a single, non-glycosylated, polypeptide chain, 36kDa.
Species	Yeast
Source	E.coli
Amino Acid Sequence	The sequence of the first five N-terminal amino acids was determined and was found to be Lys-Ala-Met-His-Val.
Form	Purified, in PBS, pH 7.4.
Purity	>95%, as determined by: (a) Analysis by RP-HPLC and anion-exchange FPLC (b) Analysis by reducing and non-reducing SDS-PAGE Silver Stained gel.
Dimers & Aggregates	Less than 1% as determined by silver stained SDS-PAGE gel analysis.
Endotoxin	Less than 0.1 ng/g (IEU/g) of ryNTR.
Protein Content	Protein quantitation was carried out by two independent methods: 1) UV spectroscopy at 280 nm. 2) Analysis by RP-HPLC, using a standard solution of CTLA-4 as a Reference Standard.
Application	1) Molecular standard (Western, ELISA) in studying secreted BMP-4. 2) Preparing antibodies for BMP-4 monomer. 3) Molecule standard in detecting secreted BMP-4 in

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	reduced SDS-PAGE.
Biological Activity	RyNTR is fully biologically active when compared to standardt Definition: One unit equals the change in absorbance at 412 nm per ute at 25°C using 0.2mM NADPH containing 5mM DTNB (pH 7.0) specific activity was found to be 5IU/mg.
Storage	-20°C (aliquot), avoid freezing and thawing cycles.
Pathways	Pyrimidine metabolism
GENE INFORMATION	
Gene Name	TRR1 Cytoplasmic thioredoxin reductase, key regulatory enzyme that determines the redox state of the thioredoxin system, which acts as a disulfide reductase system and protects cells against both oxidative and reductive stress [<i>Saccharomyces cerevisiae</i>]
Synonyms	Cytoplasmic thioredoxin reductase, key regulatory enzyme that determines the redox state of the thioredoxin system, which acts as a disulfide reductase system and protects cells against both oxidative and reductive stress; TRR1;Cytoplasmic thioredoxin reductase, key regulatory enzyme that determines the redox state of the thioredoxin system, which acts as a disulfide reductase system and protects cells against both oxidative and reductive stress Trr1p
Gene ID	851955
Protein Refseq	NP_010640
Chromosome Location	IV
Function	FAD binding; ferrous iron binding; oxidoreductase activity; thioredoxin-disulfide

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reductase activity

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