

Recombinant Yeast LMA1

Cat. No. LMA1-98Y **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant yeast Thioredoxin produced in <i>E. Coli</i> is a single, non-glycosylated, polypeptide chain and has a molecular mass of 12.6kDa.
Species	Yeast
Source	E.coli
Description	Cytoplasmic thioredoxin isoenzyme of the thioredoxin system which protects cells against oxidative and reductive stress, forms LMA1 complex with Pbi2p, acts as a cofactor for Tsa1p, required for ER-Golgi transport and vacuole inheritance.
Physical Appearance	Sterile Lyophilized Powder.
Formulation	Each mg of protein contains 20mM phosphate buffer pH 7.4.
Purity	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Anion-exchange FPLC. (c) Analysis by reducing and non-reducing SDS-PAGE Silver Stained.
Solubility	It is recommended to reconstitute the lyophilized ryTRX in sterile 18MΩ-cm H ₂ O.
Dimers And Aggregates	Less than 1% as determined by silver stained SDS-PAGE gel analysis.
Endotoxin	Less than 0.1 ng/g (IEU/g) of ryTRX.

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Biological Activity	RyTRX is fully biologically active when compared to standard. TRX activity is assayed by measuring the change in absorbance at 650 nm at 25°C using 0.13M bovine insulin containing 0.33mM DTT (pH 6.5). The specific activity was found to be 3IU/mg.
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Stability	RyTRX although stable at 4°C for 3 weeks, should be stored desiccated below -18°C. Please prevent freeze thaw cycles.
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GENE INFORMATION

Gene Name	TRX1 Cytoplasmic thioredoxin isoenzyme of the thioredoxin system which protects cells against oxidative and reductive stress, forms LMA1 complex with Pbi2p, acts as a cofactor for Tsa1p, required for ER-Golgi transport and vacuole inheritance [<i>Saccharomyces cerevisiae</i>]
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Synonyms	LMA1; Thioredoxin; TRX1; YLR043C
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Gene ID	850732
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Protein Refseq	NP_013144
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UniProt ID	TXBY2
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Chromosome Location	XII
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