

## Recombinant Yeast Thioredoxin

Cat. No. TRX-263Y Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Yeast Thioredoxin produced in <i>E. Coli</i> is a single, non-glycosylated, polypeptide chain. The protein has a molecular mass of 12.6 kDa.
<b>Species</b>	Yeast
<b>Source</b>	E.coli
<b>Physical Appearance</b>	Sterile Lyophilized Powder.
<b>Formulation</b>	Each mg of protein contains 20mM phosphate buffer pH 7.4.
<b>Purity</b>	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.
<b>Dimers and aggregates</b>	Less than 1% as determined by silver stained SDS-PAGE gel analysis.
<b>Endotoxin</b>	Less than 0.1 ng/g (IEU/g) of ryTRX.
<b>Biological Activity</b>	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 0.13 $\mu$ M bovine insulin containing 0.33mM DTT (pH 6.5). The specific activity was found to be 3IU/mg.
<b>Solubility</b>	It is recommended to reconstitute the lyophilized ryTRX in sterile 18M $\Omega$ -cm H <sub>2</sub> O.

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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.

**GENE INFORMATION**

**Synonyms**

TXN; MGC61975; TRX; ADF; DKFZp686B1993; MGC61975;  
OTTHUMP00000021892; SASP; TRDX; TRX1; Trx; thioredoxin; ATL-derived factor;  
Surface-associated sulphhydryl protein.

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