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Recombinant Thioredoxin (rTRX)

CLPRO334
CLPRO334-2
Lot: 206TRX01

Description:

Thioredoxins are small disulphide-containing redox proteins that have been found in all the kingdoms of living organisms. Thioredoxin contains a single disulfide active site and serves as a general protein disulphide oxidoreductase. It interacts with a broad range of proteins by a redox mechanism based on reversible oxidation of two cysteine thiol groups to a disulphide, accompanied by the transfer of two electrons and two protons. The net result is the covalent interconversion of a disulphide and a dithiol. It has been suggested that thioredoxin may catalyze the formation of correct disulfides during protein folding because of its ability to act as an efficient oxidoreductant. This could be especially useful in refolding proteins expressed in *E. coli*. To this end, thioredoxin has been shown to act as a protein disulfide isomerase. Its Molecular Weight is 11.9kDa. and the pI is 4.67.

Source: *E. Coli*.

Presentation:

20µg (CLPRO334) or 100 µg (CLPRO334-2), sterile filtered white lyophilized (freeze-dried) powder. rTRX was lyophilized from 20mM phosphate buffer, pH7.4.

Solubility:

It is recommended to reconstitute the recombinant Trx in sterile 18MΩ-cm H₂O at a concentration of 0.1mg/ml.

Stability:

Recombinant TRX although stable at 4°C for 3 weeks, should be stored desiccated below -18°C. **Please avoid freeze-thaw cycles.**

Amino acid sequence:

HMSDKIIHL TDDSFDTDLKADGAIL VDFW AEWCGPCKMIAPILDEI
GKLTVAKLNIDQNPGTAPKYGIRGIPTLLLFKNGEVAATKVGAL DANLA

Purity:

Greater than 90.0% as determined by:

Continued Overleaf...

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- (a) Analysis by RP-HPLC.
- (b) Analysis by reducing and non-reducing SDS-PAGE Silver Stained.

Biological Activity:

rTRX activity is assayed by measuring the change in absorbance at 650 nm at 25°C using 0.13μM bovine insulin containing 0.33mM DTT (pH6.5). The specific activity was found to be 3IU/mg.

Endotoxin:

Less than 0.1 ng/μg (IEU/μg) of recombinant Trx.

Publications:

1. Inhibition of transforming growth factor-beta1-induced signaling and epithelial-to-mesenchymal transition by the Smad-binding peptide aptamer Trx-SARA. Mol Biol Cell 2006 Sep;17(9):3819-31
2. dDYRK2 and Minibrain interact with the chromatin remodelling factors SNR1 and TRX. Biochem J 2006 Aug 15;398(1):45-54
3. TRX-4 (TolerRx Inc).IDrugs 2006 Apr;9(4):283-91
4. Redox regulation of mast cell histamine release in thioredoxin-1 (TRX) transgenic mice. Cell Res 2006 Feb;16(2):230-9
5. Lifespan decrease in a Caenorhabditis elegans mutant lacking TRX-1, a thioredoxin expressed in ASJ sensory neurons. FEBS Lett 2006 Jan 23;580(2):484-90
6. Coexpression of the subunits of T7 DNA polymerase from an artificial operon allows one-step purification of active gp5/Trx complex. Protein Expr Purif 2006 May;47(1):264-72

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