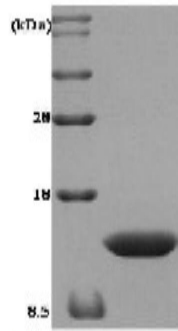


TXN

Recombinant Human Thioredoxin-1 (aa 1-105)

Catalog No.	CSI15673A CSI15673B	Quantity:	100 µg 500 µg
Alternate Names:	TXN, TRX, TRX1		
Description:	Thioredoxin(Trx) is a low molecular weight redox protein. Trx contains a redox active disulfide/dithiol group within the conserved Cys-Gly-Pro-Cys active site. It is involved in the first unique step in DNA synthesis. Trx also provides control over a number of transcription factors affecting cell proliferation and death through a mechanism referred to as redox regulation. Recombinant human thioredoxin-1 was overexpressed in <i>E. coli</i> and purified by using conventional chromatography techniques.		
Concentration:	1 mg/ml (determined by Bradford assay)		
Gene ID:	7295		
Protein Accession No:	NP_003320		
Source:	<i>E. coli</i>		
Molecular Weight:	11.7 kDa (105 aa) , confirmed by MALDI-TOF		
Formulation:	Liquid. In PBS (pH 7.4)		
Purity:	> 95% by SDS - PAGE		
Biological Activity:	Specific activity is 7-10 A650/min/mg, obtained by measuring the increase of insulin precipitation in absorbance at 650 nm resulting from the reduction of insulin. Please refer to our activity assay protocol		
Amino Acid Sequence:	MVKQIESKTA FQEALDAAGD KLVVVDVSAT WCGPCKMIKP FFHSLSEKYS NVIFLEVDVD DCQDVASECE VKCMPTFQFF KKGQKVGEFS GANKEKLEAT INELV		
Activity Assay:	<ol style="list-style-type: none"> 1. Prepare a 1 ml reaction cocktail into a suitable container: The final concentrations are 5 mM Tris, 63 mM sodium phosphate, 1 mM DTT, 0.1% (w/v) insulin, 2 mM EDTA. 2. Add 4 µg of recombinant thioredoxin into reaction cocktail and mix immediately. 3. Incubate at 25°C for 20 minutes. 4. Record the increase in A650 nm for 15 minutes 		
Storage & Stability:	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -80°C. Avoid repeated freezing and thawing cycles.		





15% SDS-PAGE (3ug)

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.



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