

Product datasheet for **AR09430PU-N**

Thioredoxin / TRX1 (1-105, His-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Thioredoxin / TRX1 (1-105, His-tag) human recombinant protein, 0.1 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	<u>MGSSHHHHHH SSSLVPRGSH</u> MVKQIESKTA FQEALDAAGD KLWVDFSAT WCGPCKMIKP FFHSLSEKYS NVIFLEVDVD DCQDVASECE VKCMPTFQFF KKGQKVGFEFS GANKEKLEAT INELV
Tag:	His-tag
Predicted MW:	13.9 kDa
Concentration:	lot specific
Purity:	>95% by SDS – PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: PBS, pH 7.4
Bioactivity:	Biological: Specific activity is >100 A650/cm/min/mg, obtained by measuring the increase of insulin precipitation in absorbance at 650 nm resulting from the reduction of insulin. <u>Activity Assay</u> 1. Prepare a 1 ml reaction cocktail into a suitable container: The final concentrations are 5mM Tris, 63mM sodium phosphate, 1mM DTT, 0.1% (w/v) insulin, 2mM EDTA. 2. Add 4 ug of recombinant His-TXN into reaction cocktail and mix immediately. 3. Incubate at 25°C for 20 minutes. 4. Record the increase in A650nm for 15 minutes.
Preparation:	Liquid purified protein
Protein Description:	Recombinant TXN protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	<u>NP_001231867</u>



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Locus ID:	7295
UniProt ID:	P10599
Cytogenetics:	9q31.3
Synonyms:	TRDX; TRX; TRX1; Trx80
Summary:	The protein encoded by this gene acts as a homodimer and is involved in many redox reactions. The encoded protein is active in the reversible S-nitrosylation of cysteines in certain proteins, which is part of the response to intracellular nitric oxide. This protein is found in the cytoplasm. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011]
Protein Families:	Druggable Genome

Product images: