

Product datasheet for AR09430PU-N

OriGene Technologies, Inc.

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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:

MGSSHHHHHH SSGLVPRGSH MVKQIESKTA FQEALDAAGD KLVVVDFSAT WCGPCKMIKP FFHSLSEKYS NVIFLEVDVD DCQDVASECE VKCMPTFQFF KKGQKVGEFS 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.

Activity Assay

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.

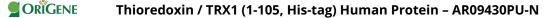
Storage: Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

RefSeq: NP 001231867





 Locus ID:
 7295

 UniProt ID:
 P10599

 Cytogenetics:
 9q31.3

Synonyms: TRDX; 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:

