

## Product datasheet for **AR09090PU-L**

### Thioredoxin-2 / TRX2 (60-166) Human Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Thioredoxin-2 / TRX2 (60-166) human recombinant protein, 0.5 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MTTFNIQDGP DFQDRVNSE TPVVDFHAQ WCGPCKILGP RLEKMKVAKQH GKVVMAKVDI DDHTDLAIEY EVSAVPTVLA MKNGDVVDKF VGIKDEDQLE AFLKKLIG
Concentration:	lot specific
Purity:	≥95 by SDS PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: PBS, pH 7.4
Bioactivity:	Specific: 3-4 A650/min/mg, obtained by measuring the increase of insulin precipitation in absorbance at 650 nm resulting from the reduction of insulin.
Preparation:	Liquid purified protein
Applications:	Protocol: <a href="#">Activity Assay</a> 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 thioredoxin2 into reaction cocktail and mix immediately. 3. Incubate at 25°C for 20 minutes. 4. Record the increase in A650nm for 15 minutes.
Protein Description:	Recombinant Thioredoxin2 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:	<a href="#">NP_036605</a>
Locus ID:	25828
UniProt ID:	<a href="#">Q99757</a>



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**Cytogenetics:** 22q12.3

**Synonyms:** COXPD29; MT-TRX; MTRX; TRX2; TXN

**Summary:** This nuclear gene encodes a mitochondrial member of the thioredoxin family, a group of small multifunctional redox-active proteins. The encoded protein may play important roles in the regulation of the mitochondrial membrane potential and in protection against oxidant-induced apoptosis. [provided by RefSeq, Jul 2008]

**Protein Families:** Druggable Genome

### Product images:

