

## Thioredoxin Reductase 1 Recombinant Protein | TXNRD1 recombinant protein

Recombinant Thioredoxin Reductase 1 (TXNRD1)

|                               |                       |                                               |
|-------------------------------|-----------------------|-----------------------------------------------|
| CATALOG #<br><b>AAA150212</b> | HOST<br><b>E Coli</b> | APPLICATIONS<br><b>Western Blot, SDS-Page</b> |
|-------------------------------|-----------------------|-----------------------------------------------|

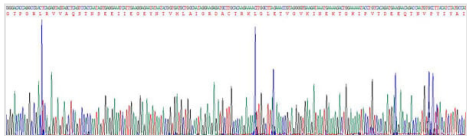
### PRODUCT SYNONYMS

Thioredoxin Reductase 1; Recombinant Thioredoxin Reductase 1 (TXNRD1); TrxR1; TR1; GRIM12; KDRE; TRXR-1; TXNR; Gene associated with retinoic and interferon-induced mortality 12 protein; KM-102-derived reductase-like factor; TXNRD1 recombinant protein

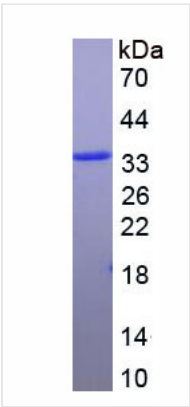
### PRODUCT SPECIFICATIONS

|                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                   | E Coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Purity/Purification                                    | >90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Form/Format                                            | Freeze-dried powder<br>20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.                                                                                                                                                                                                                                                                                                                                                        |
| Sequence Positions                                     | Gly412~Cys646                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Sequence Length                                        | 649                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Applicable Applications for TXNRD1 recombinant protein | WB (Western Blot), SDS-PAGE, Immunogen, Positive Control                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Source                                                 | Prokaryotic expression                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Species                                                | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Tag                                                    | N-terminal His Tag                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Subcellular Location                                   | Cytoplasm                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Isoelectric Point                                      | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Reconstitution                                         | Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.                                                                                                                                                                                                                                                                                                                                                                                 |
| Preparation and Storage                                | Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Avoid repeated freeze/thaw cycles.<br>Stability: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |

IMAGES



Gene Sequence  
Figure. Gene Sequencing (Extract)



SDS-PAGE  
Figure. SDS-PAGE

ADDITIONAL INFORMATION

|                                                          |                                                         |
|----------------------------------------------------------|---------------------------------------------------------|
| Product Categories/Family for TXNRD1 recombinant protein | Signal transduction; Enzyme & Kinase; Metabolic pathway |
|----------------------------------------------------------|---------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                               |
|----------------------------------|-----------------------------------------------------------------------------------------------|
| NCBI GI #                        | 172046253                                                                                     |
| NCBI GeneID                      | 7296                                                                                          |
| UniProt Accession #              | Q16881                                                                                        |
| Molecular Weight                 | Predicted Molecular Mass: 29.4kDa<br>Accurate Molecular Mass: 32kDa                           |
| NCBI Official Full Name          | Thioredoxin reductase 1, cytoplasmic                                                          |
| NCBI Official Synonym Full Names | thioredoxin reductase 1                                                                       |
| NCBI Official Symbol             | TXNRD1                                                                                        |
| NCBI Official Synonym Symbols    | TR; TR1; TXNR; TRXR1; GRIM-12                                                                 |
| NCBI Protein Information         | thioredoxin reductase 1, cytoplasmic                                                          |
| UniProt Protein Name             | Thioredoxin reductase 1, cytoplasmic                                                          |
| UniProt Gene Name                | <b>TXNRD1</b>                                                                                 |
| UniProt Synonym Gene Names       | GRIM12; KDRF; TR; GRIM-12; Gene associated with retinoic and IFN-induced mortality 12 protein |
| UniProt Entry Name               | TRXR1_HUMAN                                                                                   |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/txnrd1-recombinant-protein-e-coli-wb-western-blot-sds-page-immunogen-positive-control/150212>