

Thioredoxin Reductase 1 Active Protein | TXNRD1 active protein

Recombinant Human Thioredoxin Reductase 1

CATALOG #
AAA38824HOST
E Coli

PRODUCT SYNONYMS

Thioredoxin Reductase 1; Recombinant Human Thioredoxin Reductase 1; TXNRD1 Human; Thioredoxin Reductase 1 Human Recombinant; Thioredoxin reductase 1 cytoplasmic; TR; Gene associated with retinoic and interferon-induced mortality 12 protein; GRIM-12; Gene associated with retinoic and IFN-induced mortality 12 protein; KM-102-derived reductase-like factor; Thioredoxin reductase TR1; TXNRD1; GRIM12; KDRF; TR1; TXNR; TRXR1; MGC9145; TXNRD1 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 90% as determined by SDS-PAGE.
Form/Format	0.5mg/ml solution containing 1xPBS pH-7.4 & 10% glycerol
Sequence	MGSSHHH HHHSSGLVPR GSHMYDYDLIII GGGSGGLAAA KEAAQYGKKV MVLDFVTPTP LGTRWGLGGT CVNVGCIPIPK LMHQAALLGQ ALQDSRNYGW KVEETVKHDW DRMIEAVQNH IGSLNWGYRV ALREKKVVEE NAYGQFIGPH RIKATNNKGK EKIYSAERFL IATGERPRYL GIPGDKEYCI SSDDLFSLPY CPGKTLVGA SYVALECAGF LAGIGLDVTM MVRILLRGF DQDMANKIGE HMEEHGKIF RQFVPIKVEQ IEAGTPGRLR VVAQSTNSEE IIEGEYNTVM LAIGRDACTR KIGLETGVVK INEKTGKIPV TDEEQTNVPY IYAIGDILED KVELTPVAIQ AGRLLAQRLY AGSTVKCDYE NVPTTVFTPL EYGACGLSEE KAVEKFGEEN IEVYHSYFWP LEWTIPSRDN NKCYAKIICN TKDNERVVGF HVLGPNAGEV TQGFAAALKC GLTKKQLDST IGIHPVCAEV FTTLSVTKRS GASILQAGC
Sequence Length	649
Physical Appearance	Sterile filtered colorless solution.
Biological Activity	Specific activity is > 15 units/mg, and was measured in a coupled assay with 5,5'-Dithiobis(2-nitrobenzoic acid)(DTNB) and NADPH. The amount of TNB generated by NADPH was measured in absorbance at 412 nm.
Preparation and Storage	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for TXNRD1 active protein	TXNRD1 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 508 amino acids (161-647 a.a.) and having a molecular mass of 55.7 kDa. TXNRD1 protein is fused to a 20 amino acid His tag at N-terminus and is purified by standard chromatography.
Product Categories/Family for TXNRD1 active protein	Enzymes; Reductase

NCBI AND UNIPROT INFORMATION

NCBI GI #	148277071
NCBI GeneID	7296
NCBI Accession #	NP_001087240.1
NCBI GenBank Nucleotide #	NM_001093771.2

UniProt Accession #	Q16881; Q6FI31; Q6VB40; Q6VB41; Q6VB42; Q6VBP2; Q6VBP3; B7Z1F4; B7Z3Y8; B7Z904; E9PMY9; F5H780
NCBI Official Full Name	thioredoxin reductase 1, cytoplasmic isoform 3
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; KM-102-derived reductase-like factor; gene associated with retinoic and IFN-induced mortality 12 protein; gene associated with retinoic and interferon-induced mortality 12 protein; oxidoreductase; thioredoxin reductase GRIM-12; thioredoxin reductase TR1
UniProt Protein Name	Thioredoxin reductase 1, cytoplasmic
UniProt Gene Name	TXNRD1
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/e-coli-txnrd1-active-protein/thioredoxin-reductase-1/38824>