

TXNRD1 Human

Description: 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.

Catalog #: ENPS-525

For research use only.

Synonyms: 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 TR

Source: Escherichia Coli.

Physical Appearance: Sterile filtered colorless solution.

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH MYDYDLIIIG GGSGGLAAAK
EAAQYGKKVM VLDFVTPTPL GTRWGLGGTC VNVGCIPKKL MHQAALLGQALQDSRNYGWK
VEETVKHDWD RMIEAVQNHI GSLNWGYRVA LREKKVYEN AYGQFIGPHR IKATNNKGKE
KIYSAERFLI ATGERPRYLGPDKKEYCIS SDDLFSLPYC PGKTLVVGAS YVALECAGFL
AGIGLDVTVM VRSI

Purity: Greater than 90% as determined by SDS-PAGE.

Formulation:

TXNRD1 Human solution containing 1x PBS pH-7.4 & 10% glycerol.

Stability:

TXNRD1 Human although stable at 4°C for 1 week, should be stored desiccated below -18°C. Please prevent freeze thaw cycles.

Usage:

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Introduction:

TXNRD1 belongs to the selenium-containing pyridine nucleotide-disulphide oxidoreductase family, which has a conserved catalytic site of Cys-Val-Asn-Val-Gly-Cys. TXNRD1 decreases thioredoxins as well as other substrates, and participates in selenium metabolism and protection against oxidative stress. Inhibition of TXNRD1 activity serves as a potential treatment for cancer, AIDS and other autoimmune diseases as well as bacterial infections and parasitic diseases.

Biological Activity:

Specific activity is 0.48-0.6 units/ml, and was measured in a coupled assay with DTNB and NADPH. The amount of TNB generated by NADPH was measured in absorbance at 412 nm.

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