

## 32-2873: TXNRD1 161-649 Recombinant Protein

**Alternative Name :** 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

### Description

Source : Escherichia Coli. TXNRD1 Human Recombinant fused with a 21 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 510 amino acids (161-649 a.a.) and having a molecular mass of 55.9kDa. The TXNRD1 is purified by proprietary chromatographic techniques. 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.

### Product Info

**Amount :** 10 µg  
**Purification :** Greater than 90.0% as determined by SDS-PAGE.  
**Content :** The TXNRD1 solution (1 mg/ml) contains 20mM Tris-HCl buffer (pH8.0) and 10% Glycerol.  
**Storage condition :** 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.  
**Amino Acid :** MGSSHHHHHH SSGLVPRGSH MYDYDLIIG GSGGLAAAK EAAQYGKKVM VLDFVTPTPL  
GTRWGLGGTC VNVGCIKKL MQAALLGQA LQDSRNYGWK VEETVKHDWD RMIEAVQNH  
GSLNWGYRVA LREKKVYYEN AYGQFIGPHR IKATNNGKE KIYSAERFLI ATGERPRYL  
IPGDKEYCIS SDDLFSLPYC PGKTLVVGAS YVALECAGFL AGIGLDVTVM VRSILLRGFD  
QDMANKIGEH MEEHGKIFIR QFVPIKVEQI EAGTPGRLRV VAQSTNSEEI IEGEYNTVML  
AIGRDACTRK IGLETVGVKI NEKTGKIPVT DEEQTNVPYI YAIGDILEDK  
VELTPVAIQA GRLLAQLRYA GSTVKCDYEN VPTTVFTPLE YGACGLSEEK  
AVEKFGEENI EVYHSYFWPL EWTIPSRDNN KCYAKIICNT KDNERVVGFH  
VLGPNAGEVT QGFAALKCG LTKKQLDSTI GIHPVCAEVF TTLSVTKRSG  
ASILQAGCCG.

