

Thioredoxin Reductase 1 Human Recombinant

Item Number	rAP-1793
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
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.
Uniprot Accesion Number	Q16881
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MYDYDLIIIG GGSGLAAAK EAAQYGKKVM VLDFVTPTPL GTRWGLGGTC VNVCIPKKL MHQAALLGQALQDSRNYGWK VEETVKHDWD RMIEAVQNHI GSLNWGYRVA LREKKVYEN AYGQFIGPHR IKATNNKGKE KIYSAERFLI ATGERPRYLGIPGDKEYCIS SDDLFSLPYC PGKTLVVGAS YVALECAGFL AGIGLDVTVM VRSILLRGFD QDMANKIGEH MEEHGIKFIR QFVPIKVEQIEAGTPGRLRV VAQSTNSEEI IEGEYNTVML AIGRDACTRK IGLETVGVKI NEKTGKIPVT DEEQTNVPYI YAIGDILEDK VELTPVAIQAGRLLAQRLYA GSTVKCDYEN VPTTVFTPLE YGACGLSEEK AVEKFGGEENI EVYHSYFWPL EWTTIPSRDNN KYAKICNT KDNERVVGFB VLGPNAGEVT QGFAAALKCG LTKKQLDSTI GIHPVCAEVF TTLSVTKRSG ASILQAGC.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile filtered colorless solution. 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.
Formulation and Purity	TXNRD1 Human solution (0.5mg/ml) containing 1x PBS pH-7.4 & 10% glycerol. Greater than 90% as determined by SDS-PAGE.
Application	
Solubility	
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.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**