Recombinant Human TXNRD1 Protein, MYC/DDK-tagged

Cat. No. TXNRD1-2969H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TXNRD1 protein, fused to MYC/DDK-tagged at C-terminus, was expressed in HEK293.
Species	Human
Source	HEK293
Description	This gene encodes a member of the family of pyridine nucleotide oxidoreductases. This protein reduces thioredoxins as well as other substrates, and plays a role in selenium metabolism and protection against oxidative stress. The functional enzyme is thought to be a homodimer which uses FAD as a cofactor. Each subunit contains a selenocysteine (Sec) residue which is required for catalytic activity. The selenocysteine is encoded by the UGA codon that normally signals translation termination. The 3' UTR of selenocysteine-containing genes have a common stem-loop structure, the sec insertion sequence (SECIS), that is necessary for the recognition of UGA as a Sec codon rather than as a stop signal. Alternative splicing results in several transcript variants encoding the same or different isoforms.
Form	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	54.6 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method

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GENE INFORMATION

Gene Name	TXNRD1 thioredoxin reductase 1 [Homo sapiens]
Official Symbol	TXNRD1
Synonyms	GRIM-12; TR; TR1; TRXR1; TXNR
Gene ID	7296
mRNA Refseq	NM_001093771
Protein Refseq	NP_001087240
MIM	601112
UniProt ID	Q16881

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