

Recombinant Human Thioredoxin-Like 1, His-tagged

Cat. No. TXNL1-3421H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TXNL1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	TXNL1, also known as TRP32, TXL or TXL-1, is a cytoplasmic protein that participates in endocytotic signaling pathways and acts as a redox sensor. Expressed throughout the body, TXNL1 functions to couple oxidative stress to endocytosis, thereby regulating the GDI. Additionally, overexpression of TXNL1 inhibits cell proliferation by predisposing the cell to G0/G1 arrest, suggesting that TXNL1 also functions as a transcriptional repressor.
Form	Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 0.2M NaCl, 5mM DTT, 20% glycerol.
Molecular Weight	34.4 kDa (309aa) confirmed by MALDI-TOF.
Purity	> 95% by SDS - PAGE.
Concentration	0.5 mg/ml (determined by Bradford assay).
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MVGVKPVGSD PDFQPELSGA GSRLAVVKFT MR G CGPCLRI APAFSSMSNK YPQAVFLEVD VHQCQGTAAAT NNISATPTFL FF RNK

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VRIDQ YQGADAVGLE EKIQLHLEND PGSNEDTDIP KGYMDLMPFI NKA GC EC
 LNE SDEHGFNDCL RKDTTFLESD CDEQLLITVA FNQPVKLYSM KFQGPDNGQG
 PK YVKIFINL PRSMDFEEAE RSEPTQALEL TEDDIKEDGI VPLRYVKFQN VNS VTI
 F VQS NQGEETTRI SYFTFIGTPV QATNMNDFKR VVGKKGESH.

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION
Gene Name

TXNL1 thioredoxin-like 1 [Homo sapiens]

Synonyms

thioredoxin-like 1; TxI; TXNL; TRP32; TXL-1; TXNL1; thioredoxin-like protein 1;
 thioredoxin-related protein 1; 32 kDa thioredoxin-related protein; thioredoxin -related
 32 kDa protein; thioredoxin-like, 32kDa; TXL

Gene ID

9352

mRNA Refseq

NM_004786

Protein Refseq

NP_004777

MIM

603049

UniProt ID

O43396

**Chromosome
Location**

18q21.31

Function

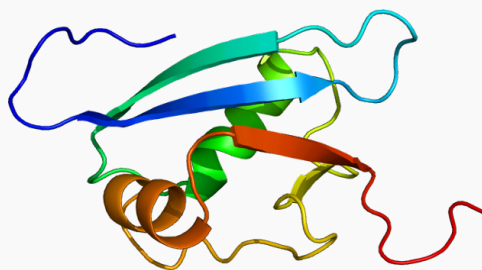
disulfide oxidoreductase activity; electron carrier activity; protein disulfide
 oxidoreductase activity

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PDBrendering based
on 1gh2.



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