

**TXNL1, 1-289aa, Human, His tag, E.coli**

**Cat.NO.: TP04357**

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3th Edition

**Synonyms:** Thioredoxin-like protein 1, TRP32, TxI, TXL-1, TXNL, Thioredoxin like protein 1, thioredoxin-like 1, txnl1

**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. Recombinant human TXNL1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

**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

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMVGVKPVGSDPDFQPELSGAGSRLAVVKFTMRGCGPCLRIAPAFSSMSNKYPQ  
AVFLEVDVHQCQGTAAATNNISATPTFLFFRNKVRIDQYQGADAVGLEEKIKQHLENDPGSNEDTDIPKGYMDLMPFI  
NKAGCECLNESDEHGFDNCLRKDTTFLESDCDEQLLITVAFNQPVKLYSMKFQGPDPNGQGPKYVKIFINLPRSMDF  
EEAERSEPTQALELTEDDIKEDGIVPLRYVKFQNVNSVTIFVQSNQGEEETTRISYFTFIGTPVQATNMNDFKRVVVGK  
KGESH

**Purity:** > 95% by HPLC

**Concentration:** 0.5 mg/ml (determined by Bradford assay)

**Endotoxin Level:** <1.0 EU per 1 ug of protein (determined by LAL method)

**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.