Recombinant human TXNL1 protein

Catalog Number: ATGP0892

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-289aa

UniProt No.
O43396

NCBI Accession No.
NP_004777

Alternative Names
Thioredoxin-like protein 1, TRP32, Txl, TXL-1, TXNL, Thioredoxin like protein 1, thioredoxin-like 1, txnl1

PRODUCT SPECIFICATION

Molecular Weight
34.4 kDa (309aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 5mM DTT, 20% glycerol

Purity
> 95% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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.

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Amino acid Sequence

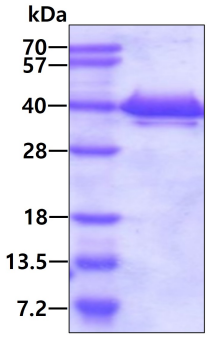
<MGSSHHHHHH SSGLVPRGSH> MVGVKPVGSD PDFQPELSGA GSRLAVVKFT MRGCGPCLRI APAFSSMSNK YPQAVFLEVD VHQCQGTAAT NNISATPTFL FFRNKVRIDQ YQGADAVGLE EKIKQHLEND PGSNEDTDIP KGYMDLMPFI NKAGCECLNE SDEHGFDNCL RKDTTFLESD CDEQLLITVA FNQPVKLYSM KFQGPDNGQG PKYVKIFINL PRSMDFEEAE RSEPTQALEL TEDDIKEDGI VPLRYVKFQN VNSVTIFVQS NQGEEETTRI SYFTFIGTPV QATNMNDFKR VVGKKGESH

General References

Zhou R., et al. (2010) Nat Immunol. 11(2):136-40.
Patwari P., et al. (2009) J Biol Chem. 284(37):24996-5003.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.