
Product Data Sheet

Product Name: TXNL1 Human
 Cat. No.: GP24928
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Thioredoxin-like protein 1; TRP32; TxI; 32 kDa thioredoxin-related protein; TXNL; Thioredoxin-like 32kDa; TXL-1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGVKPVGSD PDFQPELSGA GSRLAVVKFT MRGCGPCLRI APAFSSMSNK YPQAVFLEVD VHQCQGTAAAT NNISATPTFL FFRNKVRIDQ YQGADAVGLE EKIKQHLEND PGSNEDTDIP KGYMDLMPFI NKAGCECLNE SDEHGFDNCL RKDTTFLESD CDEQLLITVA FNQPVKLYSM KFQGPDNGQG PKYVKIFINL PRSMDFEEAE RSEPTQALEL TEDDIKEDGI VPLRYVKFQN VNSVTIFVQS NQGEEETTRI SYFTFIGTPV QATNMNDFKR VVGKKGESH		
Formulation	The TXNL1 protein solution (0.5mg/1ml) is formulated in 20 mM Tris-HCl buffer (pH8.0), 0.2M NaCl, 5mM DTT and 20% glycerol.		

Introduction

TXNL1 is a cytoplasmic protein which takes part in endocytotic signaling pathways and acts as a redox sensor. TXNL1 is universally expressed in the body and its goal is to couple oxidative stress to endocytosis, thereby regulating the GDI. Moreover, overexpression of TXNL1 inhibits cell proliferation by predisposing the cell to G0/G1 arrest, signifying that TXNL1 also functions as a transcriptional repressor.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Please avoid freeze thaw cycles.

Background

TXNL1 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 309 amino acids (1-289.a.a) and having a molecular mass of 34.4kDa. TXNL1 is fused to a 20

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amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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