

Recombinant human TXNL4A protein

Catalog Number: ATGP1539

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-142aa

UniProt No.

P83876

NCBI Accession No.

NP_006692

Alternative Names

Thioredoxin-like 4A, DIB1, DIM1, HsT161, TXNL4, u5-15kD

PRODUCT SPECIFICATION

Molecular Weight

19.3 kDa (166aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 20% glycerol, 1mM DTT

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

Thioredoxin-like 4A, also known as TXNL4A, belongs to the Dim protein family. TXNL4A is a 142 amino acid protein that plays an essential role in pre-mRNA splicing. Due to a failure to express early zygotic transcripts, deletion of the gene encoding TXNL4A in *Schizosaccharomyces pombe* leads to embryonal lethality during gastrulation. Localized to the nucleus, TXNL4A interacts with hnRNP F, hnRNP H2, Cas-L and PQBP-1 to effect gene expression. Recombinant human TXNL4A 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 MGSYMSYMLP HLHNGWQVDQ AILSEEDRVV VIRFGHDWDP TCMKMDEVLY
SIAEKVKNFA VIYLVLDITEV PDFNKMYELY DPCTVMFFFR NKHIMIDLGT GNNNKINWAM EDKQEMVDII ETVYRGARKG
RGLVVSPKDY STKYRY

General References

Zhang Y Z., et al. (1999) *Physiol Genomics*. 1:109-118.

Zhang Y Z., et al. (2000) *Gene*. 257: 33-43.

DATA

SDS-PAGE

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

