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

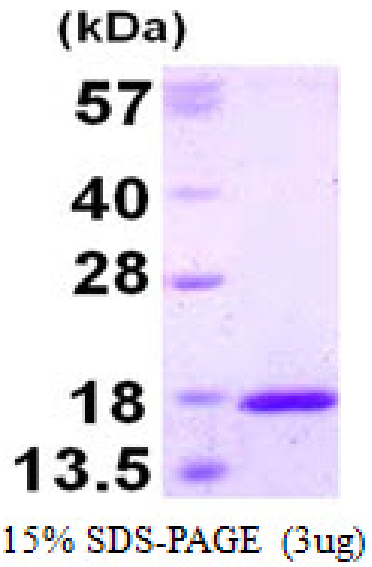
MGSSHHHHHH SSGLVPRGSH MGSHMSYMLP HLHNGWQVDQ AILSEEDRVV VIRFGHDWDP TCMKMDEVLY SIAEKVKNFA VIYLVDITEV PDFNKMYELY DPCTVMFFFR NKHIMIDLGT GNNNKINWAM EDKQEMVDII ETVYRGARKG RGLVVSPKDY STKYRY

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



15% SDS-PAGE (3ug)

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