

Recombinant Human Dim2/TXNL4B Protein (His Tag)

Catalog Number:PKSH030617

 **DIA-AN®**
by Elabscience

Note: Centrifuge before opening to ensure complete recovery of vial contents.

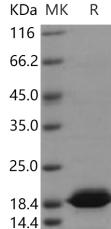
Description

Synonyms	Dim2;DLP
Species	Human
Expression Host	E.coli
Sequence	Met 1-Ile 149
Accession	Q9NX01
Calculated Molecular Weight	19.0 kDa
Tag	N-His

Properties

Purity	> 92 % as determined by reducing SDS-PAGE.
Endotoxin	Please contact us for more information.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, 20% glycerol, 0.1% Tween20, 50mM Arg, pH 7.5 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manu
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 92 % as determined by reducing SDS-PAGE.

Background

Dim2, also known as TXNL4B, is a member of the DIM1 family. The Dim protein family is composed of two classes, Dim1 and Dim2, which share a common thioredoxin-like fold. They were originally identified for their role in cell cycle progression and have been found to interact with Prp6, an essential component of the spliceosome, which forms the bridge of U4/U6.U5-tri-snRNP. In spite of their biological and structural similarities, Dim1 and Dim2 proteins differ in many aspects. Dim1 bears distinctive structural motifs responsible for its interaction with other spliceosome components. Dim2 forms homodimers and contains specific domains required for its interactions with partners. This originality suggests that although both proteins are involved in pre-mRNA splicing, they are likely to be involved in different biological pathways. Dim2 reduced in E.Coli is a single, non-glycosylated polypeptide chain containing 185 amino acids and having a molecular mass of 21.1kDa. It is fused to a 36 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. Dim2 has a vital role in pro-mRNA splicing. Dim2 is required in cell cycle progression for

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S/G2 transition and interacts with PRPF6 subunit of the spliceosome.

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