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# **Recombinant human TBPL1 protein**

Catalog Number: ATGP1896

#### PRODUCT INFORMATION

### **Expression system**

E.coli

#### **Domain**

1-186aa

#### **UniProt No.**

P62380

#### **NCBI Accession No.**

NP 004856

#### **Alternative Names**

TATA box-binding protein-like protein 1, MGC8389, MGC9620, STuD, TLF, TLP, TRF2

### **PRODUCT SPECIFICATION**

### **Molecular Weight**

23.3 kDa (209aa) confirmed by MALDI-TOF

#### Concentration

0.25mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 50% glycerol, 2mM DTT, 1mM EDTA

#### **Purity**

> 90% 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**

TBPL1, also known as STuD, TLF, TLP and TRF2, belongs to the TBP family. The TATA box-binding protein (TBP) is an essential component of the basal transcriptional machinery. Initiation of transcription by RNA polymerase II requires the activities of more than 70 polypeptides. The protein that coordinates these activities is transcription factor IID (TFIID), which binds to the core promoter to position the polymerase properly, serves as the scaffold for assembly of the remainder of the transcription complex, and acts as a channel for regulatory signals. It is essential for spermiogenesis and believed to be important in expression of developmentally regulated genes.



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Recombinant human TBPL1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

# **Amino acid Sequence**

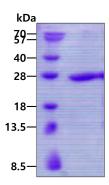
<MGSSHHHHHH SSGLVPRGSH MGS>MDADSDV ALDILITNVV CVFRTRCHLN LRKIALEGAN VIYKRDVGKV LMKLRKPRIT ATIWSSGKII CTGATSEEEA KFGARRLARS LQKLGFQVIF TDFKVVNVLA VCNMPFEIRL PEFTKNNRPH ASYEPELHPA VCYRIKSLRA TLQIFSTGSI TVTGPNVKAV ATAVEQIYPF VFESRKEIL

#### **General References**

Ohbayashi T., et al. (1999) Biochem. Biophys. Res. Commun. 255:137-142 Rabenstein M.D., et al. (1999) Proc. Natl. Acad. Sci. u.S.A. 96:4791-4796

# **DATA**

#### **SDS-PAGE**



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

