

# Recombinant human TCEB1 protein

Catalog Number: ATGP1363

## PRODUCT INFORMATION

**Expression system**

E.coli

**Domain**

1-112aa

**UniProt No.**

Q15369

**NCBI Accession No.**

NP\_005639

**Alternative Names**

Transcription elongation factor B polypeptide 1, SIII, Elongin-C

## PRODUCT SPECIFICATION

**Molecular Weight**

14.6 kDa (132aa) confirmed by MALDI-TOF

**Concentration**

0.5mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT, 0.15M NaCl.

**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**

TCEB1 (elongin C) is a subunit of elongin, which is a general transcription elongation factor that increases the RNA polymerase II transcription elongation past template encoded arresting sites. The SIII complex is composed of elongins A/A2, B and C. It activates elongation by RNA polymerase II by suppressing transient pausing of the polymerase at many sites within transcription units. Elongin A functions as the transcriptionally active component of the SIII complex, whereas elongins B and C are regulatory subunits. Elongin A2 is specifically expressed in the testis, and capable of forming a stable complex with elongins B and C. The von Hippel-Lindau

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(VHL) tumor suppressor protein binds to elongins B and C, and thereby inhibits transcription elongation. Recombinant human TCEB1 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 MDGEEKTYGG CEGPDAMYVK LISSDGHEFI VKREHALTSG TIKAMLSGPG QFAENETNEV  
NFREIPSHVL SKVCMYFTYK VRYTNSSTEI PEFPIAPEIA LELLMAANFL DC

### General References

Duan DR., et al. (1995) Science. 269(5229):1402-6.

Aso T., et al. (1995) Science. 269(5229):1439-43.

## DATA

### SDS-PAGE

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

