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# Recombinant human TEN1 protein

Catalog Number: ATGP2166

# **PRODUCT INFORMATION**

# **Expression system**

E.coli

#### **Domain**

1-123aa

#### UniProt No.

086WV5

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

NP 001106795

#### **Alternative Names**

CST complex subunit TEN1, TEN1 telomerase capping complex subunit homolog, C17orf106

### **PRODUCT SPECIFICATION**

### **Molecular Weight**

16.2 kDa (146aa) confirmed by MALDI-TOF

#### Concentration

0.5mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 7.5) containing 0.15M NaCl, 10% glycerol, 1mM DTT

#### **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**

TEN1 is component of the CST complex, a complex that binds to single-stranded DNA and is required to protect telomeres from DNA degradation. The CST complex binds single-stranded DNA with high affinity in a sequence-independent manner, while isolated subunits bind DNA with low affinity by themselves. In addition to telomere protection, the CST complex has probably a more general role in DNA metabolism at non-telomeric sites. Recombinant human TEN1 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**

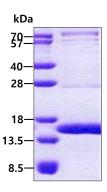
<MGSSHHHHHH SSGLVPRGSH MGS>MMLPKPG TYYLPWEVSA GQVPDGSTLR TFGRLCLYDM IQSRVTLMAQ HGSDQHQVLV CTKLVEPFHA QVGSLYIVLG ELQHQQDRGS VVKARVLTCV EGMNLPLLEQ AIREQRLYKQ ERGGSQ

## **General References**

Miyake Y., et al. (2009) Mol. Cell 36:193-206.

# **DATA**

### **SDS-PAGE**



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

