

Recombinant human TEN1 protein

Catalog Number: ATGP2166

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-123aa

UniProt No.

Q86WV5

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

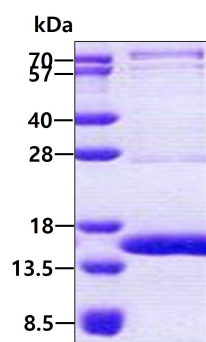
<MGSSHHHHHH SSGLVPRGSH MGS>MMLPKPG TYYLPWEVSA GQVPDGSTLR TFGRLCLYDM IQSRVTLMAQ
HGSDQHQLV CTKLVEPFHA QVGSLYIVLG ELQHQQDRGS VVKARVLTCV EGMNLPLEQ AIREQRLYKQ ERGGSQ

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.