

# Recombinant Human TEN1 CST complex subunit, His-tagged

**Cat. No.** TEN1-212H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | TEN1, 1-123aa, Human, His tag, E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>ProteinLength</b>    | 1-123 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Description</b>      | 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. |
| <b>Form</b>             | Liquid. In 20mM Tris-HCl buffer (pH 7.5) containing 0.15M NaCl, 10% glycerol, 1mM DTT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Molecular Mass</b>   | 16.2kDa (146aa), confirmed by MALDI-TOF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>AA Sequence</b>      | MGSSHHHHHH SSGLVPRGSH MGSMMLPKPG TYYLPWEVSA GQVPDGSTLR<br>TFGRCLCYDM IQSRVTLMAQ HGSDQHQLV CTKLVEPFHA QVGSlyIVLG<br>ELQHQQDRGS VVKARVLTCV EGMNLPLEQ AIREQRLYKQ ERGGSQ                                                                                                                                                                                                                                                                                                                                                                                                                               |

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|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>              | >90% by SDS - PAGE                                                                                                                                                                                                                                                         |
| <b>Storage</b>             | Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.                                                                                                                         |
| <b>Concentration</b>       | 0.5 mg/ml (determined by Bradford assay)                                                                                                                                                                                                                                   |
| <b>GENE INFORMATION</b>    |                                                                                                                                                                                                                                                                            |
| <b>Gene Name</b>           | TEN1 TEN1 CST complex subunit [ Homo sapiens (human) ]                                                                                                                                                                                                                     |
| <b>Official Symbol</b>     | TEN1                                                                                                                                                                                                                                                                       |
| <b>Synonyms</b>            | TEN1; C17orf106; TEN1 CST complex subunit; CST complex subunit TEN1; protein telomeric pathways with STN1 homolog; TEN1 telomerase capping complex subunit homolog; telomere length regulation protein TEN1 homolog; telomeric pathways in association with Stn1, number 1 |
| <b>Gene ID</b>             | 100134934                                                                                                                                                                                                                                                                  |
| <b>mRNA Refseq</b>         | NM_001113324                                                                                                                                                                                                                                                               |
| <b>Protein Refseq</b>      | NP_001106795                                                                                                                                                                                                                                                               |
| <b>MIM</b>                 | 613130                                                                                                                                                                                                                                                                     |
| <b>UniProt ID</b>          | Q86WV5                                                                                                                                                                                                                                                                     |
| <b>Chromosome Location</b> | 17q25.1                                                                                                                                                                                                                                                                    |
| <b>Function</b>            | DNA binding; protein binding                                                                                                                                                                                                                                               |

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