
Product Data Sheet

Product Name: TEN1 Human
 Cat. No.: GP24802
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	TEN1 telomerase capping complex subunit homolog (<i>S. cerevisiae</i>); C17orf106; CST complex subunit TEN1; Protein telomeric pathways with STN1 homolog; Telomere length regulation protein TEN1 homolog; TEN1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMLPKPG TYYLPWEVSA GQVPDGSTLR TFGRLCLYDM IQSRVTLMAQ HGSDQHQLV CTKLVEPFHA QVGSLYIVLG ELQHQQDRGS VVKARVLTVCV EGMNLPLLEQ AIREQRLYKQ ERGGSQ.		
Formulation	The TEN1 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 7.5), 0.15M NaCl, 10% glycerol and 1mM DTT.		

Introduction

TEN1 is part of a complex that binds to single-stranded DNA and is necessary in order to protect telomeres from DNA degradation (CST complex). The CST complex binds single-stranded DNA with high affinity in a sequence-independent mode, while isolated subunits bind DNA with low affinity by themselves. Further to telomere protection, the CST complex has most likely a more general part in DNA metabolism at non-telomeric sites.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

TEN1 Human Recombinant produced in *E. coli* is a single polypeptide chain containing 146 amino acids (1-123) and having a molecular mass of 16.2kDa. TEN1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Caution: Product has not been fully validated for medical applications. For research use only.

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