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**Product Data Sheet**


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Product Name: OBFC1 Human  
 Cat. No.: GP24089  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	AAF-44; RPA-32; STN1; CST complex subunit STN1; Suppressor of cdc thirteen homolog; Oligonucleotide/oligosaccharide-binding fold-containing protein 1; OBFC1.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMQPGSSR CEEETPSLLW GLDPVFLAFA KLYIRDILDM KESRQVPGVF LYNGHPIKQV DVLGTVIGVR ERDAFYSYGV DDSTGVINCI CWKKLNTESE SAAPSAAREL SLTSQKLLQ ETIEQKTKIE IGDTIRVRGS IRTYREEREI HATAYYKVDV PVWNIQIARM LELPTIYRKV YDQPFHSSAL EKEEALSNPG ALDLPSLTSL LSEKAKEFLM ENRVQSFYQQ ELEMVESLLS LANQPVIHSA CSDQVNFKKD TTSKAIHSIF KNAIQLLQEK GLVFQKDDGF DNLYYVTRED KDLHRKIHRI IQQDCQKPNH MEKGCHFLHI LACARLSIRP GLSEAVLQQV LELLEDQSDI VSTMEHYHTA F.		
Formulation	The OBFC1 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 20% glycerol and 1mM DTT.		

**Introduction**

Oligonucleotide Binding Fold Containing 1 (OBFC1) is a part of the CST complex, a complex which binds to single-stranded DNA and is essential to defend telomeres from DNA degradation. The CST complex binds single-stranded DNA with high affinity in a sequence-independent way, whereas isolated subunits bind DNA with low affinity by themselves. The role of the CST complex is less specific 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%

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

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HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

OBFC1 Human Recombinant produced in E. coli is a single polypeptide chain containing 391 amino acids (1-368) and having a molecular mass of 44.5kDa. OBFC1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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