

OBFC1, 1-368aa Human, His tag, E.coli

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3th Edition

Synonyms:CST complex subunit STN1, AAF-44, RPA-32, STN1

Description:CST complex subunit STN1, also known as OBFC1, is a 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 OBFC1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

Form:Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT

Molecular Weight:44.5 kDa (391aa) confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMGSMQPGSSRCEEETPSLLWGLDPVFLAFKLYIRDILDMKESRQVPGVFLYNG
HPIKQVDVLGTVIGVRERDAFYSGVDDSTGVINCICWKKLNTESVSAAPSAARELSLTSQLKKLQETIEQKTKIEIGD
TIRVRGSIRTYREEREIHATAYYKVDDPVWNIQIARMLELPTIYRKVYDQPFHSSALEKEEALSNGALDLPSLTSLLS
EKAKEFLMENRVQSFYQQELEMVESLLSLANQPVIHSACSDQVNFKKDTTSKAIHSIFKNAIQLLQEKGLVFQKDDG
FDNLYYVTREDKDLHRKIHRIQQDCQKPNHMEKGGCHFLHILACARLSIRPGLSEAVLQQVLELLEDQSDIVSTMEHY
YTAF

Purity:> 95% by HPLC

Concentration:0.5 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.