

## 32-8203: Recombinant Human OBFC1/CST Complex Subunit STN1 (N-6His)

**Gene :** STN1  
**Gene ID :** 79991  
**Uniprot ID :** Q9H668

### Description

Source: E. coli.  
MW :44.2kD.

Recombinant Human CST complex subunit STN1 is produced by our E.coli expression system and the target gene encoding Met1-Phe368 is expressed with a 6His tag at the N-terminus. CST Complex Subunit STN1 (OBFC1) is a 368 amino acid protein that contains one OB DNA-binding domain. It is a member of the STN1 family. OBFC1 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.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Lyophilized from a 0.2 µm filtered solution of 20mM Tris, 1mM DTT, pH 8.0.  
**Storage condition :** Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.  
**Amino Acid :** MGSSHHHHHSSGLVPRGSHMQPGSSRCEEETPSLLWGLDPVFLAFKLYIRDILDMKESRQVPGVFLYNGHP  
IKQVDVLGTVIGVRERDAFYSGVDDSTGVINCICWKKLNTESVSAAPSAARELSLTSQKLLQETIEQTKIEIG  
DTIRVRGSIRTYREEREIHATAYYKVDVWNIQIARMLLPTIYRKVYDQPFHSSALEKEEALSNPGALDLPSTLS  
LLSEKAKEFLMENRVQSFYQEQELEMVESLLSLANQPVIHSACSDQVNFKDDTTSKAIHSIFKNAIQLLQEKGLVF  
QKDDGFDNLYYVTREDKDLHRKIHRIIQQDCQKPNHMEKGCHFLHILACARLSIRPGLSEAVLQQVLELLEDQS  
DIVSTMEHYTAF

### Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH<sub>2</sub>O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.