# Recombinant Human OBFC1/STN1 Protein (His Tag)

Catalog Number:PKSH032832



Note: Centrifuge before opening to ensure complete recovery of vial contents.

### **Description**

Synonyms CST Complex Subunit STN1;Oligonucleotide/Oligosaccharide-Binding Fold-

Containing Protein 1;Suppressor of Cdc Thirteen Homolog;OBFC1;STN1

Species Human
Expression Host E.coli

Sequence Met 1-Phe368
Accession AAH17400.1
Calculated Molecular Weight 44.3 kDa
Observed molecular weight 44 kDa
Tag N-His

## **Properties**

**Purity** > 80 % as determined by reducing SDS-PAGE.

**Endotoxin** < 1.0 EU per µg of the protein as determined by the LAL method.

**Storage** Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.
 Formulation Lyophilized from a 0.2 μm filtered solution of 20mM Tris-HCl, 1mM DTT, 5%

Trehalose, pH 8.0.

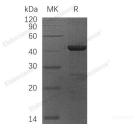
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information i

**Reconstitution** Please refer to the printed manual for detailed information.

#### Data



> 80 % as determined by reducing SDS-PAGE.

## **Background**

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.

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