

Datasheet for ABIN7552985

Cyclin T1 Protein (CCNT1) (AA 1-726) (His tag)[Go to Product page](#)

Overview

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|-------------------------------|--|
| Quantity: | 1 mg |
| Target: | Cyclin T1 (CCNT1) |
| Protein Characteristics: | AA 1-726 |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This Cyclin T1 protein is labelled with His tag. |

Product Details

| | |
|-----------|---|
| Purpose: | Custom-made recombinant CCNT1 Protein expressed in mammalian cells. |
| Sequence: | MEGERKNNNK RWFYFTREQL NSPSRRFGVD PDKELSYRQQ AANLLQDMGQ RLNVSQLTIN TAIVYMHRFY MIQSFTQFPG NSVAPAALFL AAKVEEQPKK LEHVIKVAHT CLHPQESLPD TRSEAYLQQV QDLVILESII LQTLGFELTI DHPHTHVVKC TQLVRASKDL AQTSYFMATN SLHLTTFSLQ YTPPVVACVC IHLACKWSNW EIPVSTDGKH WWEYVDATVT LELLDELTHE FLQILEKTPN RLKRIWNWRA CEAACKTKAD DRGTDEKTSE QTILNMISQS SSDTTIAGLM SMSTSTTSVAV PSLPVSEESS SNLTSVEMLP GKRWLSSQPS FKLEPTQGHR TSENALALTGV DHSLPQDGSN AFISQKQNSK SVPSAKVSLK EYRAKHAEEL AAQKRQLENM EANVKSQYAY AAQNLLSHHD SHSSVILKMP IEGSENPERP FLEKADKTAL KMRIPVAGGD KAASSKPEEI KMRIKVHAAA DKHNSVEDSV TKSREHKEKH KTHPSNHHHH HHHSHKHSH SQLPVG TGKN RPGDPKHSSQ TSNLAHKTY SSSSFSSSS TRKRG PSEET GGAVFDHPAK IAKSTKSSSL NFSFSLPTM GQMPGHSSDT SGLSFSQPSC KTRVPHSKLD KGPTGANGHN TTQTIDYQDT VNMLHSLLSA QGVQPTQPTA FEFVRPYSY LNPRSGGISS RSGNTDKPRP PPLPSEPPPP |

Product Details

LPPLPK **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Characteristics: Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

Target Details

Target: Cyclin T1 (CCNT1)

Alternative Name: CCNT1 ([CCNT1 Products](#))

Background: Cyclin-T1 (CycT1) (Cyclin-T),FUNCTION: Regulatory subunit of the cyclin-dependent kinase pair (CDK9/cyclin-T1) complex, also called positive transcription elongation factor B (P-TEFb), which facilitates the transition from abortive to productive elongation by phosphorylating the CTD (C-terminal domain) of the large subunit of RNA polymerase II (RNA Pol II) (PubMed:16109376, PubMed:16109377, PubMed:35393539, PubMed:30134174). Required to activate the protein kinase activity of CDK9: acts by mediating formation of liquid-liquid phase separation (LLPS) that enhances binding of P-TEFb to the CTD of RNA Pol II (PubMed:29849146, PubMed:35393539). {ECO:0000269|PubMed:16109376, ECO:0000269|PubMed:16109377,

Target Details

ECO:0000269|PubMed:29849146, ECO:0000269|PubMed:30134174, ECO:0000269|PubMed:35393539}., FUNCTION: (Microbial infection) In case of HIV or SIV infections, binds to the transactivation domain of the viral nuclear transcriptional activator, Tat, thereby increasing Tat's affinity for the transactivating response RNA element (TAR RNA). Serves as an essential cofactor for Tat, by promoting RNA Pol II activation, allowing transcription of viral genes. {ECO:0000269|PubMed:10329125, ECO:0000269|PubMed:10329126}.

Molecular Weight: 80.7 kDa

UniProt: [O60563](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months