

Recombinant Human CCNT1 Protein, GST-Tagged

Cat. No. CCNT1-0680H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CCNT1 full-length ORF (BAF83679.1, 1 a.a. - 726 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	This gene encodes a member of the highly conserved cyclin C subfamily. The encoded protein tightly associates with cyclin-dependent kinase 9, and is a major subunit of positive transcription elongation factor b (p-TEFb). In humans, there are multiple forms of positive transcription elongation factor b, which may include one of several different cyclins along with cyclin-dependent kinase 9. The complex containing the encoded cyclin and cyclin-dependent kinase 9 acts as a cofactor of human immunodeficiency virus type 1 (HIV-1) Tat protein, and is both necessary and sufficient for full activation of viral transcription. This cyclin and its kinase partner are also involved in triggering transcript elongation through phosphorylation of the carboxy-terminal domain of the largest RNA polymerase II subunit. Overexpression of this gene is implicated in tumor growth. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2013]
Molecular Mass	107 kDa
AA Sequence	MEGERKNNNKRWYFTREQLNSPSRRFGVDPDKELSYRQQAANLLQDMGQRLNV SQLTINTAIVYMHRFYMIQSFTQFPGNSVAPAALFLAAKVEEQPKKLEHVIKVAHTCL

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

HPQESLPDTRSEAYLQQVQDLVILESILQTLGFELTIDHPHPTHVVKCTQLVRASKDLA
 QTSYFMATNSLHLTTFSLQYTPPVACVCIHLACKWSNWEIPVSTDGKHWWEYVDA
 TVTLELLDELTHEFLQILEKTPNGLKRIWNWRACEAAKKTADDRTGDEKTSEQTILN
 MISQSSSDTTIAGLMSMSTSTTSAPVSLPVSEESSNLTSEMLPGKRWLSSQPSFK
 LEPTQGHRTSENALTGVDHSLPQDGSNAFISQKQNSKSVPSAKVSLKEYRAKHAE
 ELAAQKRQLENMEANVKSQYAYAAQNLLSHHDSHSSVILKMPIEGSENPERPFLEKA
 DKTALKMRIPVAGGDKAASSKPEEIKMRIKVHAAADKHNSVEDSVTKSREHKEKHKT
 HPSNHHHHHHNHHSHKHSQLPVGTGNKRPGDPKHSSQTSNLAHKTYSLSSSFSS
 SSSTRKRGPSSEETGGAVFDHPAKIAKSTKSSSLNFSFSLPTMGQMPGHSSDTSGL
 SFSQPSCKTRVPHSKLDKGPTGANGHNTTQTIDYQDTVNMLHSLLSAQGVQPTQPT
 AFEFVRPYSDYLNPRSGGISSRSGNTDKPRPPPLPSEPPPPPLPPLPK

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

CCNT1 cyclin T1 [Homo sapiens]

Official Symbol

CCNT1

Synonyms

CCNT1; cyclin T1; HIV1, human immunodeficiency virus type 1 (HIV 1) expression (elevated) 1; cyclin-T1; CCNT; CYCT1; cyclin-T; cyclin T1b; cyclin C-related protein; CDK9-associated C-type protein; Human immunodeficiency virus-1 expression;

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subunit of positive elongation transcription factor b; human immunodeficiency virus type 1 (HIV-1) expression (elevated) 1; HIVE1; FLJ11223; DKFZp313A1331; DKFZp313N0919; DKFZp313O1211;

Gene ID 904

mRNA Refseq NM_001240

Protein Refseq NP_001231

MIM 143055

UniProt ID O60563

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