

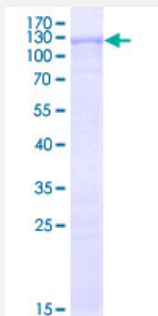
Full-Length

CCNT1 (Human) Recombinant Protein (P01)

Catalog # H00000904-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human CCNT1 full-length ORF (BAF83679.1, 1 a.a. - 726 a.a.) recombinant protein with GST tag at N-terminal.

Sequence

MEGERKNNNKRWYFTREQLNSPSRRFGVDPDKELSYRQQAANLLQDMGQRLNVSQLTINTAIV
YMHRYMIQSFTQFPGNSVAPAAFLAAKVEEQPKLEHVIVKVAHTCLHPQESLPDTRSEAYLQQ
VQDLVILESIIQLTGFELTIDHPHTHVVKCTQLVRASKDLAQTSYFMATNSLHLTTFSLQYTPPVVA
CVCIHACKWSNWEIPVSTDGKHWWVEYDATVTLELLDELTHEFLQILEKTPNGLKRWNNWRACE
AAKTKADDRGTDEKTSEQTILNMISQSSSDTTIAGLMSMSTSTTSAPVSLPVSEESSNLTSMEM
LPGKRWLSSQPSFKLEPTQGHRTSENALATGVDHSLPQDGSNAFISQKQNSKSVPSAKVSLKEY
RAKHAEELAAQKRQLENMEANVKSQYAYAAQNLLSHHDSHSSVILKMPIEGSENPERPFLEKAD
KTALKMRIPVAGGDKAASSKPEEIKMRIKVHAAADKHNSVEDSVTKSREHKEKHKTHPSNHHHHH
NHSHKHSHSQLPVGTGNKRPGDPKHSSQTSNLAHKTYLSSSFSSSSSTRKRGPSEETGGAV
FDHPAKIAKSTKSSSLNFSFPSLPTMGQMPPGHSSDTSGLSFSQPSCKTRVPHSKLDKGPTGANG
HNTTQTIDYQDTVNMLHSLLSAQGVQPTQPTAFEFVRPYSDYLNPRSGGISSRSGNTDKPRPPPL
PSEPPPPLPLPK

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

107

Interspecies Antigen Sequence

Mouse (89); Rat (78)

Preparation Method

[in vitro wheat germ expression system](#)

Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

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

Gene Info — CCNT1

Entrez GeneID	904
GeneBank Accession#	AK290990.1
Protein Accession#	BAF83679.1
Gene Name	CCNT1
Gene Alias	CCNT, CYCT1
Gene Description	cyclin T1
Omim ID	602506
Gene Ontology	Hyperlink

Gene Summary

The protein encoded by this gene belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance through the cell cycle. Cyclins function as regulators of CDK kinases. Different cyclins exhibit distinct expression and degradation patterns which contribute to the temporal coordination of each mitotic event. This cyclin tightly associates with CDK9 kinase, and was found to be a major subunit of the transcription elongation factor p-TEFb. The kinase complex containing this cyclin and the elongation factor can interact with, and act as a cofactor of human immunodeficiency virus type 1 (HIV-1) Tat protein, and was shown to be both necessary and sufficient for full activation of viral transcription. This cyclin and its kinase partner were also found to be involved in the phosphorylation and regulation of the carboxy-terminal domain (CTD) of the largest RNA polymerase II subunit. [provided by RefSeq]

Other Designations

CDK9-associated C-type protein|cyclin C-related protein|cyclin T1b|subunit of positive elongation transcription factor b

Disease

- [Disease Progression](#)
- [Disease Susceptibility](#)
- [HIV Infections](#)