

Recombinant Full Length Human CCNH Protein, C-Flag-tagged

Cat. No. CCNH-2180HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human CCNH Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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 forms a complex with CDK7 kinase and ring finger protein MAT1. The kinase complex is able to phosphorylate CDK2 and CDC2 kinases, thus functions as a CDK-activating kinase (CAK). This cyclin and its kinase partner are components of TFIIF, as well as RNA polymerase II protein complexes. They participate in two different transcriptional regulation processes, suggesting an important link between basal transcription control and the cell cycle machinery. A pseudogene of this gene is found on chromosome 4. Alternate splicing results in multiple transcript variants.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	37.5 kDa
AA Sequence	MYHNSSQKRHWTFSSSEQLARLRADANRKFRCCKAVANGKVLPNPVPFLEPHEEMT

 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

LCKYYEKRLLEFCSV FKPAMPRSVVGTACMYFKRFYLNNSVMEYHPRIIMLTCAFLA
 CKVDEFNVSSPQFVGNLRESPLGQEKAL EQILEYELLIQQLNFHLIVHNPYRPFEGF
 LIDLKTRYPILENPEILRKTADDFLNRIALTDAYLLYTPS QIALTAILSSASRAGITMESY
 LSESLMLKENRTCLSQLLDIMKSMRNLVKKYEPPEEVAVLKQKLERC HSAELALN
 VITKKRKGYEDDDYVSKKSKHEEEEWTDDDLVESL TRTRPLEQKLISEEDLAANDIL
 DYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Transcription Factors
Protein Pathways	Cell cycle, Nucleotide excision repair
Full Length	Full L.

GENE INFORMATION

Gene Name	CCNH cyclin H [Homo sapiens (human)]
Official Symbol	CCNH

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Synonyms	CAK; p34; p37; Cych
Gene ID	902
mRNA Refseq	NM_001239.4
Protein Refseq	NP_001230.1
MIM	601953
UniProt ID	P51946

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