

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

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

SPECIFICATION

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| 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 | <p>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.</p> |
| Form | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol. |
| Molecular Mass | 37.5 kDa |
| AA Sequence | MYHNSSQKRHWTFSSSEQLARLRADANRKFRCCKAVANGKVLPNPVPFLEPHEEMT |

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LCKYYEKRLLEFCSV FKPAMPRSVVGTACMYFKRFYLNNSVMEYHPRIIMLTCAFLA
 CKVDEFNVSSPQFVGNLRESPLGQEKAL EQILEYELLIQQLNFHLIVHNPYRPFEGF
 LIDLKTRYPILENPEILRKTADDFLNRIALTDAYLLYTPS QIALTAILSSASRAGITMESY
 LSESLMLKENRTCLSQLLDIMKSMRNLVKKYEP RSEEVAVLKQKLERC HSAELALN
 VITKKRKGYEDDDYVSKKSKHEEEEWTDDDLVESL TRTRPLEQKLISEEDLAANDIL
 DYKDDDDKV

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| 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

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|------------------------|--|
| 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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