

## Product datasheet for TP304982L

### Cyclin H (CCNH) (NM\_001239) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human cyclin H (CCNH), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC204982 protein sequence Red=Cloning site Green=Tags(s)

MYHNSSQKRHWTFSSSEQLARLRADANRKFRCCKAVANGKVLPNPVPFLEPHEEMTLCKYYEKRLLEFCSV  
FKPAMPERSVGTACMYFKRFYLNNSVMEYHPRIIMLTCAFLACKVDEFNVSSPQFVGNLRESPLGQEKAL  
EQILEYELLLIQQLNFHLIVHNPYRPFEGFLIDLKTRYPILENPEILRKTADDFLNRIALTDAYLLYTPS  
QIALTAILSSASRAGITMESYLSLMLKENRTCLSQLLDIMKSMRNLVKKYEPPRSEEVAVLKQKLERC  
HSAELALNVITKKRKGYEDDDYVSKKSKHEEEWTDDDLVESL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	37.5 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u><a href="#">NP_001230</a></u>
Locus ID:	902



[View online »](#)

UniProt ID: [P51946](#)

RefSeq Size: 1403

Cytogenetics: 5q14.3

RefSeq ORF: 969

Synonyms: CAK; Cych; p34; p37

**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 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 TFIIH, 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.[provided by RefSeq, Nov 2010]

**Protein Families:** Druggable Genome, Transcription Factors

**Protein Pathways:** Cell cycle, Nucleotide excision repair

### Product images:



Coomassie blue staining of purified CCNH protein (Cat# [TP304982]). The protein was produced from HEK293T cells transfected with CCNH cDNA clone (Cat# [RC204982]) using MegaTran 2.0 (Cat# [TT210002]).