

## Product datasheet for **TP304982M**

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

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human cyclin H (CCNH), 100 µg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone or AA Sequence:** >RC204982 protein sequence  
**Red**=Cloning site **Green**=Tags(s)

MYHNSSQKRHWTFSSSEQLARLRADANRKFRCCKAVANGKVLPNPVPFLEPHEEMTLCKYYEKRLLEFCSV  
FKPAMPERSVGTACMYFKRFYLNNSVMEYHPRIIMLTCAFLACKVDEFNVSSPQFVGNLRESPLGQEKAL  
EQILEYELLLIQLNFHLIVHNPYRPFEGFLIDLKTRYPILENPEILRKTADDFLNRIALTDAYLLYTPS  
QIALTAILSSASRAGITMESYLSLMLKENRTCLSQLLDIMKSMRNLVKKYEPFRSEEVAVLKQKLERC  
HSAELALNVITKKRKGVEDDDYVSKKSKHEEEWTDDDLVESL

**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:** [NP\\_001230](#)

**Locus ID:** 902



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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]).