

Product datasheet for PH304982

OriGene Technologies, Inc.

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Cyclin H (CCNH) (NM_001239) Human Mass Spec Standard

Product data:

Product Type: Mass Spec Standards

Description: CCNH MS Standard C13 and N15-labeled recombinant protein (NP_001230)

Species: Human Expression Host: HEK293

Expression cDNA Clone or AA Sequence:

RC204982

Predicted MW: 37.6 kDa

Protein Sequence: >RC204982 protein sequence

Red=Cloning site Green=Tags(s)

MYHNSSQKRHWTFSSEEQLARLRADANRKFRCKAVANGKVLPNDPVFLEPHEEMTLCKYYEKRLLEFCSV FKPAMPRSVVGTACMYFKRFYLNNSVMEYHPRIIMLTCAFLACKVDEFNVSSPQFVGNLRESPLGQEKAL EQILEYELLLIQQLNFHLIVHNPYRPFEGFLIDLKTRYPILENPEILRKTADDFLNRIALTDAYLLYTPS QIALTAILSSASRAGITMESYLSESLMLKENRTCLSQLLDIMKSMRNLVKKYEPPRSEEVAVLKQKLERC

HSAELALNVITKKRKGYEDDDYVSKKSKHEEEEWTDDDLVESL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Concentration: >0.05 μg/μL as determined by microplate BCA method

Labeling Method: Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3

Storage: Store at -80°C. Avoid repeated freeze-thaw cycles.

Stability: Stable for 3 months from receipt of products under proper storage and handling conditions.

RefSeq: NP 001230

RefSeq Size: 1403 RefSeq ORF: 969

Synonyms: CAK; CycH; p34; p37

Locus ID: 902



UniProt ID: P51946

Cytogenetics: 5q14.3

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

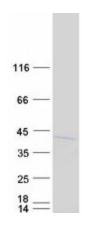
expression and degradation patterns which contribute to the temporal coordination of each mitotic event. This cyclin forms a complex with CDK7 kinase and ring finger protein MAT1. The kinase complex is able to phosphorylate CDK2 and CDC2 kinases, thus functions as a CDKactivating kinase (CAK). This cyclin 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]).