

CCND2 Protein, Human (His)

Cat. No.:	HY-P7773
Synonyms:	rHuCCND2, His; G1/S-specific cyclin-D2; CCND2
Species:	Human
Source:	E. coli
Accession:	P30279 (M1-L289)
Gene ID:	894
Molecular Weight:	Approximately 35 kDa

PROPERTIES

AA Sequence	<div> HHHHHHMELL ERYLPQCSYF EVFPLAMNYL TSPLTAEKLC TPHDFIEHIL AMYPPSMIAT ITNTDVDCLK LDQASTPTDV </div> <div> CHEVDPVRRR KCVQKDIQPY DRFLAGVPTP IYTDNSIKPQ RKLPQQREKL GSVGAAICGL ACQEQUIEAVL RDIDL </div> <div> VRDRNLLRDD MRRMVATWML KSHLQLLGAV ELLEWELVVL SLIRKHAQTF QQDEEVSSLT LNSLQQYRQD </div> <div> RVLQNLLTIE EVCEEQKCEE CMFLASKLKE GKLKWNLA AV IALCATDFKF CDALTELLAK QRDGSKSEDE </div>
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filter solution of 20 mM Tris,150 mM NaCl, 5 mM DTT, pH 7.5.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	CCND2 (Cyclin D2), is a member of the Cyclin family, along with Cyclin D1, Cyclin D3, and Cyclin E, which act as cell cycle regulatory proteins. CCND2 promotes cell cycle progression by binding and activating cyclin-dependent kinase 4 (cdk4)/cdk6. The activated CCND2-cdk4/cdk6 complex over-phosphorylates the tumor suppressor protein pRB, promotes the release, and activation of the transcription factor E2F, and targets the production of several proteins required to regulate cell cycle progression. CCND2 is abnormally expressed in a variety of malignant tumors, including colorectal,
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prostate, and bladder cancers. The function of CCND2 is primarily related to the regulation of cell cycle^[1].

REFERENCES

[1]. Di Wang, et al. CCND2 mRNA Expression Is Correlated With R-CHOP Treatment Efficacy and Prognosis in Patients With ABC-DLBCL. Front Oncol. 2020 Jul 21;10:1180.

Caution: Product has not been fully validated for medical applications. For research use only.

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