Recombinant Human Human CDK6, His-tagged

Cat. No. CCND1-31773TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length human CDK6 with N terminanl His tag and CCND1 with N-terminal proprietary tag co-expressed in a Baculovirus infected Sf9 cell expression system.
Species	Human
Description	The protein encoded by this gene belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance throughout 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 and functions as a regulatory subunit of CDK4 or CDK6, whose activity is required for cell cycle G1/S transition. This protein has been shown to interact with tumor suppressor protein Rb and the expression of this gene is regulated positively by Rb. Mutations, amplification and overexpression of this gene, which alters cell cycle progression, are observed frequently in a variety of tumors and may contribute to tumorigenesis.
Conjugation	HIS
Biological activity	Specific activity of CDK6 + CCND1 was determined to be 9.3 nmol/min/mg as per activity assay protocol.
Form	Liquid
Storage buffer	Preservative: 150mM ImidazoleConstituents: 25% Glycerol, 50mM Sodium

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	phosphate, 300mM Sodium chloride, 0.2mM DTT, 0.1mM PMSF, pH 7.0
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Full Length	Full L.

GENE INFORMATION

Gene Name	CCND1 cyclin D1 [Homo sapiens]
Official Symbol	CCND1
Synonyms	CCND1; cyclin D1; BCL1, cyclin D1 (PRAD1: parathyroid adenomatosis 1) , D11S287E, PRAD1; G1/S-specific cyclin-D1; B cell CLL/lymphoma 1; G1/S specific cyclin D1; parathyroid adenomatosis 1; U21B31;
Gene ID	595
mRNA Refseq	NM_053056
Protein Refseq	NP_444284
MIM	168461
Uniprot ID	P24385
Chromosome Location	11q13
Pathway	ATF-2 transcription factor network, organism-specific biosystem; Acute myeloid leukemia, organism-specific biosystem; Acute myeloid leukemia, conserved

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	biosystem; Androgen Receptor Signaling Pathway, organism-specific biosystem; Bladder cancer, organism-specific biosystem;
Function	cyclin-dependent protein kinase regulator activity; enzyme binding; protein binding; protein kinase activity; protein kinase binding;

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