Recombinant Human Human CDK4

Cat. No. CCND3-31094TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human CDK4 and CCND3 with N-terminal proprietary tags co-expressed in a Baculovirus infected Sf9 cell expression system, MWt 58 and 58kDa respectively.
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 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 and functions as a regulatory subunit of CDK4 or CDK6, whose activtiy is required for cell cycle G1/S transition. This protein has been shown to interact with and be involved in the phosphorylation of tumor suppressor protein Rb. The CDK4 activity associated with this cyclin was reported to be necessary for cell cycle progression through G2 phase into mitosis after UV radiation. Several transcript variants encoding different isoforms have been found for this gene.
Biological activity	The Specific activity of CCND3-31094TH was determined to be 16 nmol/min/mg.
Form	Liquid
Storage buffer	Preservative: NoneConstituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, pH 7.5

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Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Full Length	Full L.

GENE INFORMATION

Gene Name	CCND3 cyclin D3 [Homo sapiens]
Official Symbol	CCND3
Synonyms	CCND3; cyclin D3; G1/S-specific cyclin-D3;
Gene ID	896
mRNA Refseq	NM_001136017
Protein Refseq	NP_001129489
MIM	123834
Uniprot ID	P30281
Chromosome Location	6p21
Pathway	B Cell Receptor Signaling Pathway, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem; Cell cycle, organism-specific biosystem; Cell cycle, organism-specific biosystem; Cell cycle, conserved biosystem;
Function	protein binding; protein kinase binding;

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