

Recombinant Full Length Human CDK6 Protein, C-Flag-tagged

Cat. No. CDK6-790HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human CDK6 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	The protein encoded by this gene is a member of the CMGC family of serine/threonine protein kinases. This kinase is a catalytic subunit of the protein kinase complex that is important for cell cycle G1 phase progression and G1/S transition. The activity of this kinase first appears in mid-G1 phase, which is controlled by the regulatory subunits including D-type cyclins and members of INK4 family of CDK inhibitors. This kinase, as well as CDK4, has been shown to phosphorylate, and thus regulate the activity of, tumor suppressor protein Rb. Altered expression of this gene has been observed in multiple human cancers. A mutation in this gene resulting in reduced cell proliferation, and impaired cell motility and polarity, and has been identified in patients with primary microcephaly.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	36.8 kDa
AA Sequence	MEKDGLCRADQQYECVAEIGEGAYGKVFKARDLKNNGRFVALKRVRVQTGEEGMP LSTIREVAVLRHLET FEHPNVVRLFDVCTVSRTDRETKLTLVFEHVDQDLTTYLDKVP EPGVPTETIKDMMFQLLRGLDFLHSHR VVHRDLKPQNILVTSSGQIKLADFGLARIYS

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FQMALTSVVVTLWYRAPEVLLQSSYATPVDLWSVGCIFA EMFRRKPLFRGSSDVD
 QLGKILDVIGLPGEEDWPRDVALPRQAFHKSQAQPIEFVTDIDELGKDLLKLC
 LTFNPAKRISAYSALSHPYFQDLERCKENLDSHLPSSQNTSELNTATRTRPLEQKLIS
 EEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Protein Kinase
Protein Pathways	Cell cycle, Chronic myeloid leukemia, Glioma, Melanoma, Non-small cell lung cancer, p53 signaling pathway, Pancreatic cancer, Pathways in cancer, Small cell lung cancer
Full Length	Full L.

GENE INFORMATION

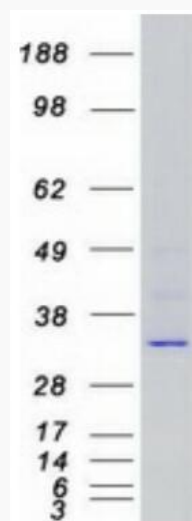
Gene Name	CDK6 cyclin dependent kinase 6 [Homo sapiens (human)]
Official Symbol	CDK6
Synonyms	MCPH12; PLSTIRE

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Gene ID	1021
mRNA Refseq	NM_001259.8
Protein Refseq	NP_001250.1
MIM	603368
UniProt ID	Q00534



Coomassie blue staining of purified CDK6 protein.