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Product datasheet for PH308560

CDK6 (NM_001259) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	CDK6 MS Standard C13 and N15-labeled recombinant protein (NP_001250)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC208560
Predicted MW:	36.9 kDa
Protein Sequence:	>RC208560 protein sequence Red=Cloning site Green=Tags(s) MEKDGLCRADQQYECVAEIGEGAYGKVFKARDLKNGGRFVALKRVRVQTGEEGMPLSTIREVAVLRHLET FEHPNVVRLFDVCTVSRTDRETKLTLVFEHVDQDLTTYLDKVPEPGVPTETIKDMMFQLLRGLDFLHSHR VVHRDLKPQNILVTSSGQIKLADFGLARIYSFQMALTSVVVTLWYRAPEVLLQSSYATPVDLWSVGCIFA EMFRRKPLFRGSSDVDQLGKILDVIGLPGEEDWPRDVALPRQAFHSKSAQPIEKFVTDIDELGKDLLLKC LTFNPAKRISAYSALSHPYFQDLERCKENLDSHLPPSQNTSELNTA 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_001250
RefSeq Size:	11628
RefSeq ORF:	978
Synonyms:	MCPH12; PLSTIRE
Locus ID:	1021

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UniProt ID: Q00534

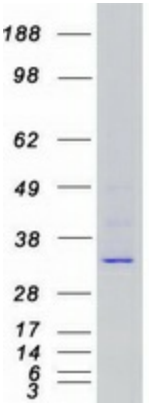
Cytogenetics: 7q21.2

Summary: 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. [provided by RefSeq, Aug 2017]

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

Product images:



Coomassie blue staining of purified CDK6 protein (Cat# [TP308560]). The protein was produced from HEK293T cells transfected with CDK6 cDNA clone (Cat# [RC208560]) using MegaTran 2.0 (Cat# [TT210002]).