Recombinant Full Length Human CHEK1 Protein, C-Flag-tagged

Cat. No. CHEK1-1024HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human CHEK1 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 belongs to the Ser/Thr protein kinase family. It is required for checkpoint mediated cell cycle arrest in response to DNA damage or the presence of unreplicated DNA. This protein acts to integrate signals from ATM and ATR, two cell cycle proteins involved in DNA damage responses, that also associate with chromatin in meiotic prophase I. Phosphorylation of CDC25A protein phosphatase by this protein is required for cells to delay cell cycle progression in response to double-strand DNA breaks. Several alternatively spliced transcript variants have been found for this gene.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	54.3 kDa
AA Sequence	MAVPFVEDWDLVQTLGEGAYGEVQLAVNRVTEEAVAVKIVDMKRAVDCPENIKKEI CINKMLNHENVVKF YGHRREGNIQYLFLEYCSGGELFDRIEPDIGMPEPDAQRFFH QLMAGVVYLHGIGITHRDIKPENLLLDE RDNLKISDFGLATVFRYNNRERLLNKMCG TLPYVAPELLKRREFHAEPVDVWSCGIVLTAMLAGELPWDQ PSDSCQEYSDWKEK

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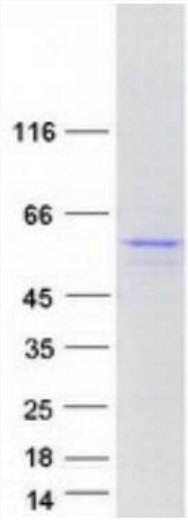
	KTYLNPWKKIDSAPLALLHKILVENPSARITIPDIKKDRWYNKPLKKGAKRPRVTS GG VSESPSGFSKHIQSNLDFSPVNSASSEENVKYSSSQPEPRTGLSLWDTSPSYIDKLV QGISFSQPTCP DHMLLNSQLLGTPGSSQNPWQRLVKRMTRFFTKLDADKSYQCLK ETCEKLGYQWKKSCMNQVTISTTDRR NNKLIFKVNLLEMDDKILVDFRLSKGDGLEFKRHFLKIKGKLIDIVSSQKVWLPATTRT RPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% 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, Stem cell - Pluripotency
Protein Pathways	Cell cycle, p53 signaling pathway
Full Length	Full L.

GENE INFORMATION

Gene Name	CHEK1 checkpoint kinase 1 [Homo sapiens (human)]
Official Symbol	CHEK1

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Synonyms	CHK1
Gene ID	1111
mRNA Refseq	NM_001114122.3
Protein Refseq	NP_001107594.1
MIM	603078
UniProt ID	O14757



Coomassie blue staining of purified CHEK1 protein.

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