Recombinant Human CHK1 Checkpoint Homolog (S. pombe), GST-tagged

Cat. No. CHEK1-4838H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human CHEK1 was expressed by baculovirus in Sf9 insect cells using a N-terminal GST tag.
Species	Human
Source	Sf9 Cells
Description	CHEK1 is a 56 kd serine/threonine protein kinase that was originally identified in fission yeast to play a role in activation of the DNA damage checkpoint in the G2 phase of the cell cycle. CHEK1 appears to function downstream of several of the known fission yeast checkpoint gene products, including that encoded by rad3+, a gene with sequence similarity to the ATM gene mutated in patients with ataxia telangiectasia.
Applications	Kinase Assay; Western Blot
Molecular Weight	82 kDa
Expression System	Sf9 insect cells using baculovirus
Form	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 0.25 mM DTT, 0.1 mM EGTA, 0.1 Mm EDTA, 0.1 mM PMSF, 25 % glycerol.
Specific Activity	214 nmol/min/mg

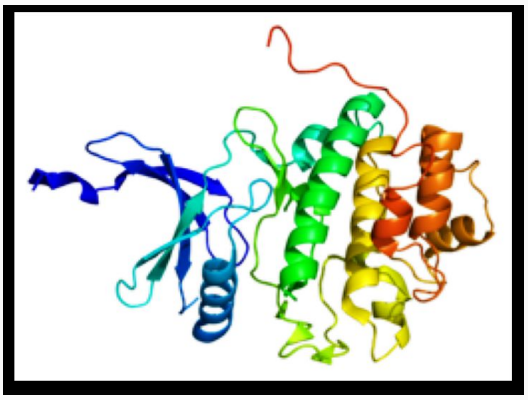
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Purity	> 95 %
Concentration	0.1 ug/ul
Sequences	Full-length
Storage	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.performance, avoid repeated handling and multiple freeze/thaw cycles.
Pathways	Activation of ATR in response to replication stress; Cell cycle; p53 signaling pathway; Cell Cycle Checkpoints; IL-3 Signaling Pathway; HTLV-I infection; Ubiquitin Mediated Degradation of Phosphorylated Cdc25A

GENE INFORMATION

Gene Name	CHEK1 CHK1 checkpoint homolog (S. pombe) [Homo sapiens]
Official Symbol	CHEK1
Synonyms	CHEK1; CHK1 checkpoint homolog (S. pombe); CHK1; CHK1 (checkpoint, S. pombe) homolog; Serine/threonine-protein kinase Chk1; EC 2.7.11.1; serine/threonine-protein kinase Chk1; OTTHUMP00000231300; OTTHUMP00000231301; OTTHUMP00000231306; OTTHUMP00000231307; OTTHUMP00000231309; Checkpoint, S. pombe, homolog of, 1
Gene ID	1111
mRNA Refseq	NM_001114121

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Protein Refseq	NP_001107593
MIM	603078
UniProt ID	O14757
Chromosome Location	11q24.2
Function	ATP binding; nucleotide binding; protein binding; protein kinase activity; protein serine/threonine kinase activity
PDBrendering based on 1ia8.	

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