

Active Recombinant Human CHEK2, GST-tagged

Cat. No. CHEK2-141H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human CHEK2 (amino acid residues 5-543), with N-terminal GST and C-terminal 6His, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	5-543 a.a.
Description	The checkpoint kinases CHK1 and CHK2 are serine/threonine protein kinases that are key components of the intracellular signalling network which responds to damaged DNA, and co-ordinates activation of cell cycle checkpoints with initiation and implementation of DNA repair.
Form	50 mM Tris/HCl pH7.5, 0.1mM EGTA, 150 mM NaCl, 0.1% β-Mercaptoethanol, 270 mM sucrose, 0.03% Brij-35, 1 mM Benzamidine, 0.2 mM PMSF.
Bio-activity	621.6 Units/mg (571.8 Units/ml) Substrate: CHKtide (KKKVSRSGLYRSPSPENLNRPR)
Molecular Mass	~89.5 kDa
Purity	>85% by InstantBlue™ SDS-PAGE
Unit Definition	1 Unit = 1 nmole of phosphate incorporated into the substrate in 1 minute.

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Storage	12 months at -70°C. Avoid multiple freeze/thaw cycles.
Concentration	0.92 mg/ml
GENE INFORMATION	
Gene Name	CHEK2 checkpoint kinase 2 [Homo sapiens]
Official Symbol	CHEK2
Synonyms	CHEK2; checkpoint kinase 2; CHK2 (checkpoint, S.pombe) homolog , CHK2 checkpoint homolog (S. pombe) , RAD53; serine/threonine-protein kinase Chk2; bA444G7; CDS1; CHK2; HuCds1; PP1425; cds1 homolog; CHK2 checkpoint homolog; checkpoint-like protein CHK2; LFS2; RAD53; hCds1;
Gene ID	11200
mRNA Refseq	NM_001005735
Protein Refseq	NP_001005735
UniProt ID	O96017
Chromosome Location	22q12.1
Pathway	Cell Cycle, organism-specific biosystem; Cell Cycle Checkpoints, organism-specific biosystem; Cell cycle, organism-specific biosystem; Cell cycle, organism-specific biosystem; Cell cycle, conserved biosystem; FOXM1 transcription factor network, organism-specific biosystem; G1/S DNA Damage Checkpoints, organism-specific biosystem;

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Function

ATP binding; metal ion binding; nucleotide binding; protein binding; protein homodimerization activity; protein kinase binding; protein serine/threonine kinase activity; protein serine/threonine kinase activity; protein serine/threonine kinase activity;

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