Recombinant Human CHEK2, His-tagged

Cat. No. CHEK2-686H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human checkpoint homologue kinase 2 (Chk2) fused to a His Tag sequence at the N-terminus was expressed in*S. frugiperda*insect cells. MW = 65430 Da.
Species	Human
Source	S.frugiperda
Description	Chk2 is involved in sensing DNA damage in eukaryotic cells. It plays an important role in the control of the cell cycle by blocking replication.
Form	Liquid. In 270 mM sucrose, 150 mM NaCl, 50 mM Tris-HCl, 1 mM DTT, 0.1 mM EGTA, pH 7.5. Please refer to vial label for lot-specific concentration.
Specific Activity	≥ 25,000 units/mg protein.
Purity	≥ 95% by SDS PAGE.
Unit Definition	One unit is defined as the amount of enzyme required to transfer 1 picomol phosphate to the synthetic peptide substrate KKKVSRSGLYRSPSMPENLNRPR per min at 30°C.
Toxicity	Standard Handling (MSDS available upon request).
Storage	≤ -70 °C. Avoid freeze/thaw Following initial thaw, aliquot and freeze (-70°C).

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GENE INFORMATION

Gene Name	CHEK2 CHK2 checkpoint homolog (S. pombe) [Homo sapiens]
Synonyms	CHEK2; CHK2 checkpoint homolog (S. pombe); CDS1; CHK2; LFS2; RAD53; HuCds1; PP1425; CHK2 (checkpoint, S.pombe) homolog; Serine/threonine-protein kinase Chk2; EC 2.7.11.1; Cds1
Gene ID	11200
mRNA Refseq	NM_001005735
Protein Refseq	NP_001005735
MIM	604373
UniProt ID	O96017
Chromosome Location	22q12.1
Pathway	Cell cycle; p53 signaling pathway; Cell Cycle Checkpoints
Function	ATP binding; nucleotide binding; protein binding; protein serine/threonine kinase activity; transferase activity; magnesium ion binding; protein binding

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