

Recombinant Human CHEK2, His-tagged

Cat. No. CHEK2-635H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human full length check point kinase 2 with N-terminal His-tag was expressed in a Baculovirus infected Sf9 cell expression system. MW=91kDa.
Species	Human
Source	Sf9 Cells
Description	CHK2 is rapidly phosphorylated and activated in response to replication blocks and DNA damage; the response to DNA damage occurs in an ataxia telangiectasia mutated (ATM)-dependent manner. Expression of wild-type Chk2 leads to increased p53 stabilization after DNA damage, whereas expression of a dominant-negative Chk2 mutant abrogated both phosphorylation of p53 on Ser-20 and p53 stabilization.
Formulated In	50mM Tris-HCl, pH 7.5, 150mM NaCl, 40% glycerol and 3mM DTT.
Specific Activity	6.9 pmoles/min/μg. Assay conditions: CHEK2 was incubated with a substrate for 1h at RT in 1Xkinase buffer supplemented with ATP. Developer solution was added to reaction and reaction was stopped after 1h of incubation at RT.
Application	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.
Stability	>12 months at -80°C.
Pathways	Cell cycle; p53 signaling pathway; Cell Cycle Checkpoints

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Full Length Full L.

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; EC2.7.11.1; Cds1

Gene ID 11200

mRNA Refseq NM_001005735

Protein Refseq NP_001005735

MIM 604373

UniProt ID O96017

Chromosome Location 22q12.1

Function ATP binding; nucleotide binding; protein binding; protein serine/threonine kinase activity; transferase activity; magnesium ion binding; protein binding

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