

**Catalog No.: RP03367LQ** **Recombinant**

| Species | Gene ID | Swiss Prot |
|---------|---------|------------|
| Human   | 11200   | O96017     |

## N-GST

CHEK2; CDS1; CHK2; RAD53; Checkpoint  
kinase 2; Cds1 homolog; Hucds1; hCds1

## Baculovirus-Insect Cells

≥ 85% as determined by SDS-PAGE; ≥ 85% as determined by HPLC.

## 87.4 kDa

## 75-85 kDa

< 1 EU/μg of the protein by LAL method.

Supplied as a 0.22 µm filtered solution in 50 mM Tris-HCl, 150 mM NaCl, 5% glycerol, 5 mM DTT, 0.1M Trehalose. (pH 7.5). Contact us for customized product form or formulation.

Please use running water to thaw it quickly.

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CHEK2 (Checkpoint kinase 2) is a tumor suppressor gene that encodes the protein CHK2, a serine-threonine kinase. CHK2 appears as a monomer in its inactive state. However, in the event of DNA damage SCD phosphorylation causes CHK2 dimerization. CHK2 regulates cell division, and has the ability to prevent cells from dividing too rapidly or in an uncontrolled manner. CHK2 is involved in DNA repair, cell cycle arrest or apoptosis in response to DNA damage. Mutations to the CHEK2 gene have been linked to a wide range of cancers.

Recombinant Human Checkpoint kinase 2/CHEK2 Kinase is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Ser2-Leu543) of Human CHEK2 (Accession #O96017) fused with a N-GST tag.

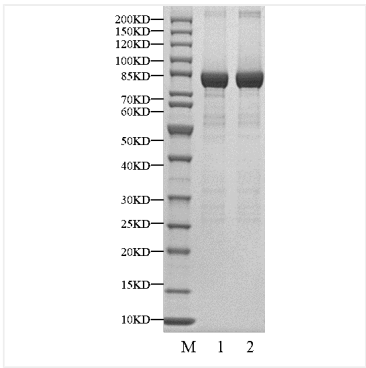
The activity of CHEK2 is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.

Store at -70°C. This product is stable at  $\leq -70^{\circ}\text{C}$  for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.

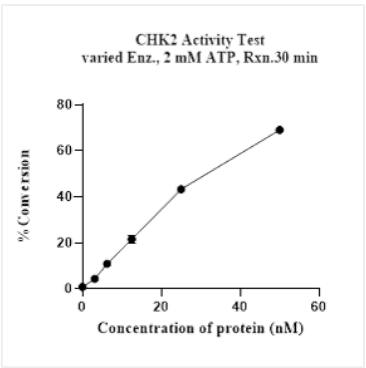
Aliquots below 10  $\mu$ L are not advisable. Product must not be stored in diluted solutions. Avoid repeated freeze-thaw cycles.

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Validation Data



Recombinant Human Checkpoint kinase 2/CHEK2 Kinase was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions.



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