Synthetic CHeckpoint Kinase 1 and 2 Substrate (KKKVSRSGLYRSPSMPENLNRPR) Peptide

Catalog No.	CSI13613	**Quantity:**	1.0 mg

Description: The synthetic peptide can be used as a substrate for CHK (checkpoint kinase) 1and 2 in in vitro kinase assays. Its sequence is derived from cdc25C.
Checkpoint kinase 1 (CHK1) blocks the activation of the Cdc2-cyclin B kinase complex, and hence entry into mitosis, by disrupting the translocation of the phosphatase Cdc25C from the cyotoplasm to the nucleus.
Checkpoint kinase 2 (CHK2) is emerging as a key mediator of diverse cellular responses to genotoxic stress, guarding the integrity of the genome throughout eukaryotic evolution. Recent studies show the fundamental role of CHK2 in the network of genome-surveillance pathways that coordinate cell-cycle progression with DNA repair and cell survival or death. Defects in CHK2 contribute to the development of both hereditary and sporadic human cancers, and earmark this kinase as a candidate tumor suppressor and an attractive target for drug discovery.

Molecular Weight: 2701 g/mol

Formulation: Lyophilized

Purity: 90 - 95% by HPLC.

Amino Acid Sequence: KKKVSRSGLYRSPSMPENLNRPR

Reconstitution: **Centrifuge vial prior to opening**. Reconstitution in 1.85ml ddH_2O results in a 200 µM solution.

Storage & Stability: Store at -20°C for up to 1 year.

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

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