

## Recombinant Human CDK1/CyclinB1 (N-GST tag)

Cat No:HR2R1253

For research use only

### Overview

|                    |   |
|--------------------|---|
| Quantity           | 10 ?g   |
| Gene Symbol        | CDK1/CyclinB1   |
| Gene ID            | N/A   |
| Accession          | NM_001786, NM_031966  |
| Alternative Name   | CDK1: CDC2 CyclinB1: CCNB1, CCNB  |
| Species            | Human   |
| Source             | Insect cells  |
| Description        | <p>CDK1 or Cell Division Control protein 1 is essential for the completion of START, the controlling event in the cell cycle that is required to initiate mitosis. CDK1 is a catalytic subunit of a protein kinase complex, called the M-Phase Promoting Factor that induces entry into mitosis and is universal among eukaryotes . Phosphorylation of Bcl-2 in G2/M phase-arrested cells following photodynamic therapy with hypericin involves a CDK1-mediated signal and delays the onset of apoptosis. Therapeutic potential of CDK inhibitor NU2058 in androgen-independent prostate cancer has also been demonstrated .</p> |
| Functions          | The specific activity of CDK1/CyclinB1 was determined to be 14 nmol /min/mg as per activity assay protocol.   |
| Formulation        | 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.  |
| Solubility         | N/A   |
| Appearance         | Liquid  |
| Molecular Weight   | 58  |
| Purity             | 70% - 90%   |
| Concentration      |   |
| Shipping Condition | Dry Ice   |
| Storage Condition  | Store product at ?70?C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.   |