

## Recombinant Human PFTK1 (CDK14)/CyclinY (N-GST tag)

Cat No:HR2R1847

For research use only

### Overview

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| Quantity           | 10 ?g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Gene Symbol        | PFTK1 (CDK14)/Cyclin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Gene ID            | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Accession          | NM_012395 , NM_145012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Alternative Name   | PFTK1: CDK14; PFTAIRE1 Cyclin Y: CCNY; C10orf9; CBCP1; CCNX; CFP1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Species            | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Source             | Insect cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Description        | PFTK1 is a member of the CDC2 - related protein kinase family which is expressed primarily in the postnatal and adult nervous system . PFTK1 is expressed at high levels in brain, pancreas, kidney, heart, testis, and ovary. PFTK1 amino acid residue ser119 is required for its interaction with all four 14-3-3 isoforms, while ser120 may contribute slightly to PFTK1 binding . PFTK1 acts as a cyclin-dependent kinase that regulates cell cycle progression and cell proliferation. Overexpression of PFTK1 predicts resistance to chemotherapy in patients with oesophageal squamous cell carcinoma. |
| Functions          | The specific activity of PFTK1 (CDK14)/CyclinY was determined to be 2.5 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   | 72                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 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.                                                                                                                                                                                                                                                                                                                                                                       |