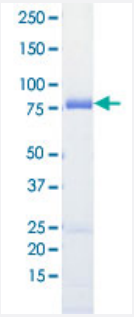
Bioactive Full-Length

# CLK4 (Human) Recombinant Protein

Catalog # P5529 Size 5 ug

## Applications




Result of activity analysis

Result of activity analysis

## Specification

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|---|---|
| **Product Description** | Human CLK4 (NP_065717.1, 1 a.a. - 481 a.a.) full-length recombinant protein with GST tag expressed in baculovirus infected Sf21 cells. |
| **Host** | insect |
| **Theoretical MW (kDa)** | 85 |
| **Form** | Liquid |
| **Preparation Method** | Baculovirus infected insect cell (Sf21) expression system |
| **Purification** | Glutathione sepharose chromatography |
| **Purity** | 87 % by SDS-PAGE/CBB staining |

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|---|---|
| **Activity** | The activity was determined by IMAPTM assay. The enzyme was incubated with fluorescein labeled peptide and phosphorylation was detected by IMAPTM technology (fluorescence polarization). Substrate: SRPKtide. ATP: 100 uM. |
| **Quality Control Testing** | Loading 1 ug protein in SDS-PAGE |
| **Storage Buffer** | In 50 mM Tris-HCl, 150 mM NaCl, pH 7.5 (0.1% CHAPS, 1 mM DTT, 10% glycerol) |
| **Storage Instruction** | Store at -80°C.<br>Aliquot to avoid repeated freezing and thawing. |
| **Note** | Result of activity analysis<br>Result of activity analysis |

## Applications

- Functional Study
- SDS-PAGE

## Gene Info — CLK4

| | |
|---|---|
| **Entrez GeneID** | 57396 |
| **Protein Accession#** | NP_065717.1 |
| **Gene Name** | CLK4 |
| **Gene Alias** | DKFZp686A20267 |
| **Gene Description** | CDC-like kinase 4 |
| **Omim ID** | 607969 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | The protein encoded by this gene belongs to the CDC2-like protein kinase (CLK) family. This protein kinase can interact with and phosphorylate the serine- and arginine-rich (SR) proteins, which are known to play an important role in the formation of spliceosomes, and thus may be involved in the regulation of alternative splicing. Studies in the Israeli sand rat Psammomys obesus suggested that the ubiquitin-like 5 (UBL5/BEACON), a highly conserved ubiquitin-like protein, may interact with and regulate the activity of this kinase. Multiple alternatively spliced transcript variants have been observed, but the full-length natures of which have not yet been determined. [provided by RefSeq |
| **Other Designations** | dual specificity protein kinase CLK4\|protein serine threonine kinase Clk4 |

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