# CLK3 Protein, Human (sf9, GST)

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| **Cat. No.:** | HY-P75678 |
| **Synonyms:** | Dual specificity protein kinase CLK3; CDC-like kinase 3; CLK3 |
| **Species:** | Human |
| **Source:** | Sf9 insect cells |
| **Accession:** | P49761-1/NP_003983.2 (M1-R490) |
| **Gene ID:** | 1198 |
| **Molecular Weight:** | Approximately 70 kDa |

## PROPERTIES

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| **Biological Activity** | The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet. |
| **Appearance** | Lyophilized powder. |
| **Formulation** | Lyophilized from a 0.2 μm filtered solution of 50 mM Tris, 100 mM NaCl, pH 8.0, 0.5 mM GSH, 0.5 mM PMSF, 25% Glycerol. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. |
| **Endotoxin Level** | <1 EU/μg, determined by LAL method. |
| **Reconsititution** | It is not recommended to reconstitute to a concentration less than 100 μg/mL in $ddH_2O$. |
| **Storage & Stability** | Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage. |
| **Shipping** | Room temperature in continental US; may vary elsewhere. |

## DESCRIPTION

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| **Background** | CLK3, a dual-specificity kinase, exhibits activity on both serine/threonine and tyrosine-containing substrates, particularly targeting serine- and arginine-rich (SR) proteins within the spliceosomal complex. This enzyme is integral to a regulatory network influencing the control of RNA splicing by SR proteins, leading to the redistribution of these proteins from speckles to a diffuse nucleoplasmic distribution. CLK3 specifically phosphorylates SRSF1 and SRSF3, key components of the splicing machinery. Moreover, it plays a role in the alternative splicing of tissue factor (F3) pre-mRNA in endothelial cells, suggesting its involvement in the intricate regulation of gene expression and splicing events within cellular processes. |



Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA