

## DCLK1 Protein, Human (sf9, His-GST)

Cat. No.:	HY-P75307
Synonyms:	Serine/threonine-protein kinase DCLK1; Doublecortin-like kinase 1; DCAMKL1; DCDC3A
Species:	Human
Source:	Sf9 insect cells
Accession:	O15075 (M1-V705)
Gene ID:	9201
Molecular Weight:	Approximately 105 kDa

### PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM Tris, 500 mM NaCl, pH 7.4, 10% gly, 0.5 mM PMSF.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

### DESCRIPTION

#### Background

The DCLK1 protein emerges as a probable kinase with potential involvement in a calcium-signaling pathway that regulates neuronal migration during brain development. Beyond its developmental role, DCLK1 may also contribute to functions within the mature nervous system. The kinase's association with a calcium-signaling pathway suggests a critical role in orchestrating the intricate processes of neuronal migration, crucial for the proper formation of the developing brain. Furthermore, the implication of DCLK1 in mature nervous system functions hints at its versatility and significance throughout various stages of neural development and function. Further exploration is warranted to elucidate the specific mechanisms and pathways through which DCLK1 exerts its regulatory influence in both developing and mature neural tissues.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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