

# Recombinant Human Doublecortin-like Kinase 1, GST-tagged

Cat. No. DCLK1-1009H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Full-length recombinant human DCLK1 was expressed by baculovirus in Sf9 cells using an N-terminal GST tag.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>Description</b>	DCLK1 or doublecortin-like kinase 1 contains two N-terminal doublecortin domains (which bind microtubules and regulate microtubule polymerization), a C-terminal serine/threonine protein kinase domain (which shows substantial homology to Ca <sup>2+</sup> /calmodulin-dependent protein kinase), and a serine/proline-rich domain in between the doublecortin and the protein kinase domains (which mediates multiple protein-protein interactions). DCLK1 is a microtubule-associated kinase that can undergo autophosphorylation. DCLK1 has microtubule-polymerizing activity that is independent of its protein kinase activity. DCLK1 is involved in several different cellular processes, including neuronal migration, retrograde transport, neuronal apoptosis and neurogenesis.
<b>Applications</b>	Kinase Assay; Western Blot
<b>Molecular Weight</b>	110 kDa
<b>Expression System</b>	Sf9 insect cells using baculovirus
<b>Form</b>	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM

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glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25 % glycerol.

**Specific Activity** 3.4 nmol/min/mg

**Purity** > 85 %

**Concentration** 0.1 ug/ul

**Sequences** Full length

**Storage** 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.

## GENE INFORMATION

**Gene Name** [DCLK1 doublecortin-like kinase 1 \[ Homo sapiens \]](#)

**Official Symbol** [DCLK1](#)

**Synonyms** DCLK1; doublecortin-like kinase 1; CL1; DCLK; CLICK1; DCDC3A; DCAMKL1; KIAA0369; serine/threonine-protein kinase DCLK1; OTTHUMP00000018250; OTTHUMP00000018251; OTTHUMP00000018252; doublecortin and CaM kinase-like 1; doublecortin-like and CAM kinase-like 1; doublecortin domain-containing protein 3A; EC=2.7.11.1

**Gene ID** [9201](#)

**mRNA Refseq** [NM\\_004734](#)

**Protein Refseq** [NP\\_004725](#)

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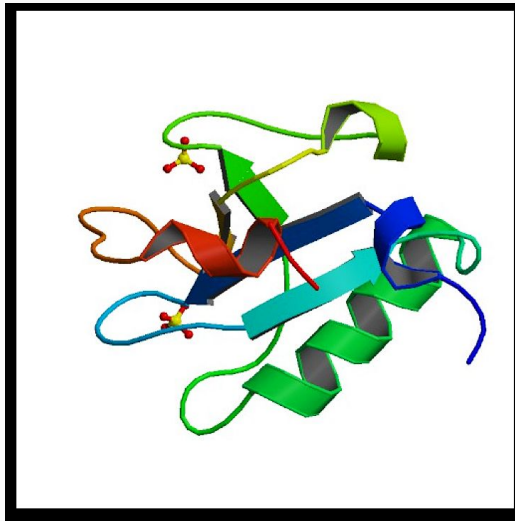
**MIM** 604742


**UniProt ID** O15075

**Chromosome Location** 13q13.3

**Function** ATP binding; kinase activity; nucleotide binding; protein kinase activity; protein serine/threonine kinase activity; receptor signaling protein activity

PDBrendering based on 1mfw.



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