

Recombinant Human Doublecortin-like Kinase 1, GST-tagged

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

SPECIFICATION

Product Overview	Full-length recombinant human DCLK1 was expressed by baculovirus in Sf9 cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
Description	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 ²⁺ /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.
Applications	Kinase Assay; Western Blot
Molecular Weight	110 kDa
Expression System	Sf9 insect cells using baculovirus
Form	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.	