

Recombinant Human DCLK2 Protein, MYC/DDK-tagged

Cat. No. DCLK2-1168H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human DCLK2 protein, fused to MYC/DDK tag at C-terminus, was expressed in HEK293.
Species	Human
Source	HEK293
Description	This gene encodes a member of the protein kinase superfamily and the doublecortin family. The protein encoded by this gene 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 Ca²⁺/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. The microtubule-polymerizing activity of the encoded protein is independent of its protein kinase activity. Mouse studies show that the DCX gene, another family member, and this gene share function in the establishment of hippocampal organization and that their absence results in a severe epileptic phenotype and lethality, as described in human patients with lissencephaly. Multiple alternatively spliced transcript variants have been identified. [provided by RefSeq, Sep 2010]
Form	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10 % glycerol.
Molecular Mass	83.4 kDa

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Purity	>50 ug/mL as determined by microplate BCA method
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Concentration	>50 ug/mL as determined by microplate BCA method
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GENE INFORMATION

Gene Name	DCLK2 doublecortin-like kinase 2 [Homo sapiens]
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Official Symbol	DCLK2
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Synonyms	CL2; CLICK-II; CLICK2; CLIK2; DCAMKL2; DCDC3; DCDC3B; DCK2
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Gene ID	166614
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mRNA Refseq	NM_001040260
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Protein Refseq	NP_001035350
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MIM	613166
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UniProt ID	Q8N568
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