

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

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

GENE INFORMATION

Gene Name [DCLK2 doublecortin-like kinase 2 \[Homo sapiens \]](#)

Official Symbol [DCLK2](#)

Synonyms [CL2](#); [CLICK-II](#); [CLICK2](#); [CLIK2](#); [DCAMKL2](#); [DCDC3](#); [DCDC3B](#); [DCK2](#)

Gene ID [166614](#)

mRNA Refseq [NM_001040260](#)

Protein Refseq [NP_001035350](#)

MIM [613166](#)

UniProt ID [Q8N568](#)

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