

Product datasheet for PH319931

DCAMKL2 (DCLK2) (NM_001040260) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	DCLK2 MS Standard C13 and N15-labeled recombinant protein (NP_001035350)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC219931
Predicted MW:	83.4 kDa
Protein Sequence:	>RC219931 representing NM_001040260 Red=Cloning site Green=Tags(s)

MASTRSIELEHFEERDKRPRPGSRRGAPSSSGSSSGPKGNGLIPSPAHSAHCSFYRTRTLQALSSEKK
AKKARFYRNGDRYFKGLVFAISSDRFRSFDALLIELTRSLSDNVNLPQGVRTIYIDGSRKVTSLDELLE
GESYVCASNEPFRKVDYTKNINPNWSVNIKGGTSRALAAASSVKSEVKESKDFIKPKLVTVIRSGVKPRK
AVRILLNKKTAHSFEQVLTDITEAIKLD SGVVKRLCTLDGKQVTCQDFFGDDDFIACGPEKFRYAQDD
FVL DHSECRVLKSSYSRSSAVKYSKSPGPSRRSKSPASVNGTPSSQLSTPKSTKSSSSSPTSPGSFRG
LKQISAHGRSSSNVNGGPELDRCSPEGVNGNRCSESSTLLEKYKIGKVI GDGNF AVVKECIDRSTGKEF
ALKIIDKAKCCGKEHLIENEVSILRRVKHPNIIMLVEEMETATELFLVMELVKGGDLFDAITSSTKYTER
DGSAMVYNLANALRYLHGLSIVHRDIKPENLLVCEYPDGTSLKLGDFGLATVVEGPLYVCGTPTYVAP
EIIAETGYGLKVDIWAAGVITYILLCGFPFRSENNLQEDLFDQILAGKLEFPAPYWDNITDSAKELISQ
MLQVNVEARCTAGQILSHPWSDDASQENMQAEVTGKLGKQHFNNALPKQNSTTTGVSVIMNTALDKEGQ
IFCSKHQCQDSGRPGMEIPVPPSVVEEIPVPGAEVPAPTPPESPTPHCPPAAPGGERAGTWRRHRD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_001035350



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RefSeq Size:	3603
RefSeq ORF:	2298
Synonyms:	CL2; CLICK-II; CLICK2; CLIK2; DCAMKL2; DCDC3; DCDC3B; DCK2
Locus ID:	166614
UniProt ID:	Q8N568
Cytogenetics:	4q31.23-q31.3

Summary: 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]

Protein Families: Druggable Genome, Protein Kinase

Product images:

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Coomassie blue staining of purified DCLK2 protein (Cat# [TP319931]). The protein was produced from HEK293T cells transfected with DCLK2 cDNA clone (Cat# [RC219931]) using MegaTran 2.0 (Cat# [TT210002]).