

Product datasheet for PH317050

DCAMKL1 (DCLK1) (NM_004734) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	DCLK1 MS Standard C13 and N15-labeled recombinant protein (NP_004725)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC217050
Predicted MW:	80.9 kDa
Protein Sequence:	>RC217050 representing NM_004734 Red=Cloning site Green=Tags(s)

MSFGRDMELEHFDERDKAQRYSRGRVNLPSPTSAHCSFYRTRTLQTLSSSEKKAKKVRFYRNGDRYFK
GIYYAISPDRFRSFEALLADLTRLSDNVNLPQGVRTIYIDGLKISSLDQLVEGESYVCGSIEPFKLL
EYTKNVNPNWSVNVKTTASRAVSSLATAKSPSEVRENKDFIRPKLVTIIRSGVKPRKAVRILLNKKTA
HSFEQVLTDITDAIKLDSGVVKRLYTLDGKQVMCLQDFFGDDDIIFACGPEKFRYQDDFLLESECRVVK
STSYTKIASSRRSTTKSPGSPRRSKSPASTSSVNGTPGSQSLTPRSGKSPSPSPTSPGSLRKQRSSQHG
GSSTSLASTKVCSSMDENDGPGEEVSEEGFQIPATITERYKVGRTIGDGNFAVVKECVERSTAREYALKI
IKKSKCRGKEHMIQNEVSI LRRVKHPNIVLLIEEMDVPTELYLMELVKGGDLFDAITSTNKYTERDASG
MLYNLASAIKYLHSLNIVHRDIKPENLLVYEHQDGSKSLKLGDFGLATIVDGPLYTVCGTPTYVAPEIIA
ETGYGLKVDIWAAGVITYILLCGFPFRGSGDDQEVLFQILMGQVDFSPYWDNVSDSAKELITMMLLV
DVDQRFSAVQVLEHPWVNDGLPENEHQLSVAGKIKKHFNTGPKPNSTAAGVSVIALDHGFTIKRSGSLD
YYQQPGMYWIRPPLLIRGRFSDEDATRM

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_004725



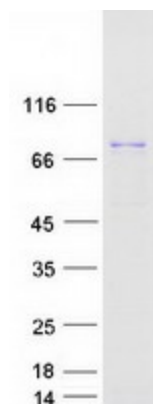
[View online »](#)

RefSeq Size:	5703
RefSeq ORF:	2187
Synonyms:	CL1; CLICK1; DCAMKL1; DCDC3A; DCLK
Locus ID:	9201
UniProt ID:	O15075
Cytogenetics:	13q13.3

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. The encoded protein is involved in several different cellular processes, including neuronal migration, retrograde transport, neuronal apoptosis and neurogenesis. This gene is up-regulated by brain-derived neurotrophic factor and associated with memory and general cognitive abilities. Multiple transcript variants generated by two alternative promoter usage and alternative splicing have been reported, but the full-length nature and biological validity of some variants have not been defined. These variants encode different isoforms, which are differentially expressed and have different kinase activities.[provided by RefSeq, Sep 2010]

Protein Families: Druggable Genome, Protein Kinase

Product images:



Coomassie blue staining of purified DCLK1 protein (Cat# [TP317050]). The protein was produced from HEK293T cells transfected with DCLK1 cDNA clone (Cat# [RC217050]) using MegaTran 2.0 (Cat# [TT210002]).