

Product datasheet for **TP317050**

DCAMKL1 (DCLK1) (NM_004734) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human doublecortin-like kinase 1 (DCLK1), 20 µg

Species: Human

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >RC217050 representing NM_004734
Red=Cloning site **Green**=Tags(s)

MSFGRDMELEHFDERDKAQRYSRGSRVNGLPSPTHSAHCSFYRTRLQTLSSSEKKAKKVRFYRNGDRYFK
GIVYAISPDRFRSFEALLADLTRLSDNVNLPQGVRTIYTIDGLKKISSLDQLVEGESYVCGSIEPFKKL
EYTKNVNPNWSVNVKTTSSASRAVSSLATAKGSPSEVRENKDFIRPKLVTIIRSGVKPRKAVRILLNKKTA
HSFEQVLTDITDAIKLDSGVVKRLYTLDGKQVMCLQDFFGDDDIACGPEKFRYQDDFLLDESECRVVK
STSYTKIASSRRSTTKSPGPSRRSKSPASTSSVNGTPGSQLSTPRSGKSPSPSPTSPGSLRKQRSSQHG
GSSTSLASTKVCSSMDENDGPGEEVSEEGFQIPATITERYKVGRTIGDGNFAVVKECVERSTAREYALKI
IKKSKCRGKEHMIQNEVSILRRVKHPNIVLLIEEMDVPTELYLVMELVKGGDLFDAITSTNKYTERDASG
MLYNLASAIKYLHSLNIVHRDIKPENLLVYEHQDGSKSLKLGDFGLATVDGPLYTVCPTPTVVAPEIIA
ETGYGLKVDIWAAGVITYILLCGFPFRGSGDDQEVLFQILMGQVDFPSPYWDNVSDSAKELITMMLLV
DVDQRFSQVLEHPWVNDGDPENEHQLSVAGKIKKHFNTPGKPNSTAAGVSVIALDHGFTIKRSGSLD
YYQQPGMYWIRPPLIRRGRFSDEDATRM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 80.9 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

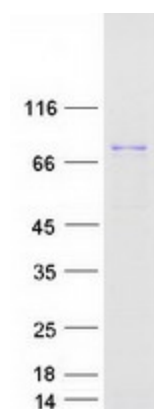
Storage: Store at -80°C.



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Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP_004725</u>
Locus ID:	9201
UniProt ID:	<u>O15075</u>
RefSeq Size:	5703
Cytogenetics:	13q13.3
RefSeq ORF:	2187
Synonyms:	CL1; CLICK1; DCAMKL1; DCDC3A; DCLK
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 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. 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]).