

## 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)

MSFGRDMELEHFDERDKAQRYSRGSRVNGLPSPTHSAHCSFYRTRTLQTLSEKKAKKVRFYRNGDRYFK  
GIVYAI SPDRFRSFEALLADLTRLSDNVNLPQGVRTIYTIDGLKKISSLDQLVEGESYVCGSIEPFKKL  
EYTKNVNPNWSVNVKTTASRAVSSLATAKGPSEVRENKDFIRPKLVTIIRSGVKPRKAVRILLNKTA  
HSFEQVLTDITDAIKLDSGVVKRLYTLDGKQVMCLQDFGDDDIACGPEKFRYQDDFLLDESECRVVK  
STS YTKIASSRRSTTKSPGSPRRSKSPASTSSVNGTPGSQLSTPRSGKSPSPSPTSPGSLRKQRSSQHG  
GSSTSLASTKVCSSMDENDGPGEVSEEGFQIPATITERYKVGRTIGDGNFAWKECVERSTAREYALKI  
IKKSKCRGKEHMIQNEVSILRRVKHPNIVLLIEEMDVPTELYLMELVKGGDLFDAITSTNKYTERDASG  
MLYNLASAIKYLHSLNIVHRDIKPNLLVYEHQDGSKSLKLGDFLATIVDGPLYTVCGTPTYVAPEIIA  
ETGYGLKVDIWAAGVITYILLCGFPFRGSGDDQEVLFQILMGQVDFSPYWDNVSDSAKELITMMLLV  
DVDQRFSAVQVLEHPWVNDGLPENEHQLSVAGKIKKHFNTGPKPNSTAAGVSVALDHGFTIKRSGSLD  
YYQQPGMYWIRPPLLIRRGFSDE DATRM

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:** [NP\\_004725](#)

**Locus ID:** 9201

**UniProt ID:** [O15075](#)

**RefSeq Size:** 5703

**Cytogenetics:** 13q13.3

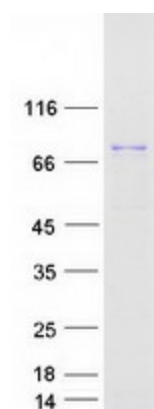
**RefSeq ORF:** 2187

**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<sup>2+</sup>/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]).