

## Product datasheet for TP510661

### Dgkg (NM\_138650) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse diacylglycerol kinase, gamma (Dgkg), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA	>MR210661 protein sequence
Clone or AA Sequence:	Red=Cloning site Green=Tags(s)

MSEEQWVSLSEEFDQLQKYSEYSSKKIKDVLAEFNEGGSLRQYDPHKPISYDVFKLFMRAYLEVDLPQP  
LSTHLFLAFSQKPRQETPDHPKEGASSEPNVSDYNSDAAKADEACAPDTEKTTKTQAPSKELEAAAP  
WEDPGALASSSDAPVVYLKDVVCYLSLMETGRPQDKLEFMFRLYDSDENGLLDQAEMDQIVSQMLHVAQY  
LEWDPTELRPILKEMLQGMDYDKDGFVSLQEWINGGMMTIPLLVLGMDDSGSKGDGRHAWTLKHFKKPT  
YCNFCRAMLMGVGKQGLCCYCKYTVHQRCVSKTIHGCVKTNKAKRSGEVMQHAWVEGNSSVKCDRCHK  
SIKCYQSVTARHCVWCRMTFHRKCELSTVCDGGELKDHILLPTSICPVSGDRQGGKSDGSVAAKDELVTQ  
YKIIPSPGTHPLLVLNPKSGGRQGERILRKFHYLLNPEQVFNLDNNGGPTPGLNFFHDTPDFRVLACGGD  
GTVGWILDCIDKANFTKHPVAVLPLGTGNDLARCLRWGGGYEGGSLTKILKEIEQSPLVMLDRWYLEVM  
PREEVNGDQVPYNIMNNYFSIGVDASIAHRFHMMREKHPEKFNSRMKNKLWYFEFGTSETFAATCKKLH  
DHIELECDGVEVDLSNIFLEGIAILNIPSMYGGTNLWGETKKNRAVIRESRKSVTDPKELKCCVQDLSDQ  
LLEVVGLEGAMEMGQIYTGLKSAGRRLAQCSSVTIRTNKLKLLPMQVDGEPWMPQCTIKITHKNQAPMMM  
PPQKSSFFSLRRRSRSDK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	88.5 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
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 after receiving vials.



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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_619591</a>
<b>Locus ID:</b>	110197
<b>UniProt ID:</b>	<a href="#">Q91WG7</a> , <a href="#">Q570Z5</a>
<b>RefSeq Size:</b>	5521
<b>Cytogenetics:</b>	16 13.37 cM
<b>RefSeq ORF:</b>	2367
<b>Synonyms:</b>	90kDa; 2900055E17Rik; AI854428; Dagk3; E430001K23Rik; mKIAA4131
<b>Summary:</b>	Diacylglycerol kinase that converts diacylglycerol/DAG into phosphatidic acid/phosphatidate/PA and regulates the respective levels of these two bioactive lipids (PubMed:32033984). Thereby, acts as a central switch between the signaling pathways activated by these second messengers with different cellular targets and opposite effects in numerous biological processes (PubMed:32033984). Has no apparent specificity with regard to the acyl compositions of diacylglycerol (By similarity). Specifically expressed in the cerebellum where it controls the level of diacylglycerol which in turn regulates the activity of protein kinase C gamma (PubMed:32033984). Through protein kinase C gamma, indirectly regulates the dendritic development of Purkinje cells, cerebellar long term depression and ultimately cerebellar motor coordination (PubMed:32033984).[UniProtKB/Swiss-Prot Function]