

Product datasheet for TP521210

Dgki (NM_001081206) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse diacylglycerol kinase, iota (Dgki), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR221210 representing NM_001081206 Red=Cloning site Green=Tags(s)

MDAAGRGCHLLPLPAARGPARAPAASSALSPTGLCSGTTASFAAAGAVAMNPSSSAGEERGATGGSSSS
GSGAGSCCLGAEGGADPRGAGAAAAAALPEAAAGQKEKEEALKEKLRDLTFRKQVSYRKAISRTGLQHL
APAHPLGLPVANGPAKEPRATLDWSENAVNGEHLWLETNVSGDLCYLGEENCQVRFKSAALRRKCAVCKI
VWHTACIEQLEKINFRCKPTFREGGSRSPRENFVRHHWVHRRRQEGKCKQCGKGFQKQKFSFHSKEIVAIS
CSWCKQAFHNKVTFCMLHHIEEPCSLGAHAIVPPTWIIKVKKPNLSLKASNRKKKRTSFKRKASKRGT
EQETKGRPFVIKPISSPLMKPLLVFVNPKSGGNQGTKVLQMFMMWYLNPRQVFDLSQEGPKDALEMYRKVP
NLRILACGGDGTVGWILSILDELQSPQPPVGVPLPLGTGNDLARTLNWGGGYTDEPVSKILCQVEDGTIV
QLDRWNLHVERNPDLPPEELEDGVCKLPLNVFNYSYSLGFDAAHVTLFESREANPEKFNSRFRNKMFYA
GAAFSDFLQRSSRDLKSHVWVCDGTDLTPKIQLDKFCIVFLNIPRYCAGTMPWGNPGDHHDFEPQRHD
DGYIEVIGFTMASLAALQVGGHGERLHQCREVMMLTYKSIPMQVDGEPCLAPAMIRISLRNQANMVQKS
KRRTSMPLLNDIHQVQAADLRRVSAPPGSFTIPQSVDPRLRIRVKNISLQDYEGLYDKDKLREASIPLG
ILVVRGDCDLETCRMYIDRLQEDLQSVSSGSQRVHYQDQETSFPRALSAQRLSPRWCFDATSADRFYRI
DRSQEHLHFVMEISHDEIFILDPDMVVSQQAGTPPGMPDLVVEQASGLSDWWNPALRKRMLSDSGMITPH
YEDSDLKDFSHSRVLQSPVSSDHAILQAVLTGDLMKLMESYKNGGSLLIQGGPHCSLLHYAAKTGNGDI
VKYILDHGPAELLDMADETGETALHKAACQRNRAVCQLLV DAGASLRQTDSKGKTPQERAQQAGDPDLA
AYLESRQNYKIIGHEDLETAV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	118.7 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



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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.
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_001074675
Locus ID:	320127
UniProt ID:	D3YWQ0
RefSeq Size:	4598
Cytogenetics:	6 B1
RefSeq ORF:	3213
Synonyms:	C130010K08Rik
Summary:	<p>Diacylglycerol kinase that converts diacylglycerol/DAG into phosphatidic acid/phosphatidate/PA and regulates the respective levels of these two bioactive lipids. 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. Has probably no preference for any of the diacylglycerols in terms of the acyl chain composition, especially for the acyl chain at the sn-2 position (By similarity). By controlling the diacylglycerol/DAG-mediated activation of RASGRP3, negatively regulates the Rap1 signaling pathway (PubMed:15894621). May play a role in presynaptic diacylglycerol/DAG signaling and control neurotransmitter release during metabotropic glutamate receptor-dependent long-term depression (PubMed:21119615).[UniProtKB/Swiss-Prot Function]</p>