Serine/Threonine-Protein Kinase DCLK2 (DCLK2) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	Serine/threonine-protein kinase DCLK2 (Dclk2), Recombinant Protein
Full Product Name	Recombinant Rat Serine/threonine-protein kinase DCLK2 (Dclk2)
Product Gene Name	Dclk2 recombinant protein
Product Synonym Gene Name	Dclk2
Sequence	MASTRSIELE HFEERDKRPR PGSRRGAPSS SGGSSISGPK GNGLIPSPAH SAHCSFYRTR TLQALSSEKK AKKARFYRNG DRYFKGLVFA ISSDRFRSFD ALLIELTRSL SDNVNLPQGV RTIYTVDGSR KVTSLDELLE GESYVCASNE PFRKVDYTKN VNPNWSVNIK GGTTRTLAVA SAKSEVKESK DFIKPKLVTV IRSGVKPRKA VRILLNKKTA HSFEQVLTDI TEAIKLDSGV VKRLCTLDGK QVTCLQDFFG DDDVFIACGP EKYRYAQDDF VLDHSECRVL KSSYSRASAA KYSGSRSPGL SRRSKSPASV KRAGHSSAYS TAKSPVNGTP SSQLSTPKST KSSSSSPTSP GSFRGLKQIS AQGRSSSNVN GGPELDRCMS PEGVNGNRCS ESFTLLEKYR IGKVIGDGNF AVVKECMDRS TGKEFALKII DKAKCCGKEH LIENEVSILR RVKHPNIIML VEEMETTTEL FLVMELVKGG DLFDAITSST KYTERDGSAM VYNLASALRY LHGLSIVHRD IKPENLLVCE YPDGTKSLKL GDFGLATVVE GPLYTVCGTP TYVAPEIIAE TGYGLKVDVW AAGVITYILL CGFPPFRSEN NLQEDLFDQI LAGKLEFPAP YWDNITDSAK ELISQMLQVN VEARCTAGEI LSHPWVSDDA SQENNMQAEV TGKLKQHFNN ALPKQNSTTT GVSVIMNTAL DKEGQVFCSK HCRDSSKSSR EQTSAREAPP PPESPRPPGP PATSGCDPAG TWRRHRD
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	82,387 Da
Sequence Positions	1-767, full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q5MPA9
Species	Rat
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Dclk2 recombinant protein	MBS1422229 is a recombinant protein targeting Dclk2. Also known as Recombinant Rat Serine/threonine-protein kinase DCLK2 (Dclk2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Dclk2 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Dclk2. It may not necessarily be applicable to this product.

NCBI GI #	308044607

NCBI GeneID	310698
NCBI Accession #	NP_001009691.3
UniProt Primary Accession #	Q5MPA9
UniProt Secondary Accession #	Q5MPA7; Q5MPA8; Q5MPB0
UniProt Related Accession #	Q5MPA9
GenBank Nucleotide #	NM_001009691.3
NCBI Official Full Name	serine/threonine-protein kinase DCLK2 isoform b
NCBI Official Synonym Full Names	doublecortin-like kinase 2
NCBI Official Symbol	Dclk2
NCBI Official Synonym Symbols	CL2; Dck2; CLICK2; CLICK-II; RGD1308384
UniProt Protein Name	Serine/threonine-protein kinase DCLK2
UniProt Synonym Protein Names	CaMK-like CREB regulatory kinase 2; CL2; CLICK-II; CLICK2; Doublecortin-like and CAM kinase-like 2; Doublecortin-like kinase 2
Protein Family	Serine/threonine-protein kinase
UniProt Gene Name	Dclk2
UniProt Synonym Gene Names	Dcamkl2; Dck2; CL2; CLICK-II; CLICK2
NCBI Protein Information	serine/threonine-protein kinase DCLK2
NCBI Summary for Dclk2	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+/calmoduline-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. Mouse studies show that this gene and the DCX gene, another family member, share function in the establishment of hippocampal organization and that their absence results in a severe epileptic phenotype and lethality, as described in human patients with lissencephaly. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Sep 2010]
UniProt Comments for Dclk2	Protein kinase with a significantly reduced Ca2++/CAM affinity and dependence compared to other members of the CaMK family. May play a role in the down-regulation of CRE-dependent gene activation probably by phosphorylation of the CREB coactivator CRTC2/TORC2 and the resulting retention of TORC2 in the cytoplasm ().
Research Articles on Dclk2	**1.** Doublecortin kinase-2 is associated with terminal segments of axons and dendrites
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.

Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/recombinant-protein/serine-threonine-protein-kinase-dclk2-dclk2/1422229