DCAMKL1 recombinant protein

DCAMKL1, Active

CATALOG #	HOST	APPLICATIONS
AAA73402	**Sf9 insect cells**	**Western Blot**

PRODUCT SYNONYMS

DCAMKL1; Active; DCLK1; DCDC3A; DCLK; KIAA0369; DCAMKL1 recombinant protein

PRODUCT SPECIFICATIONS

Host	Sf9 insect cells
Form/Format	Recombinant protein stored in 50mM sodium phosphate, pH7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.2mM DTT, and 25% glycerol.
Applicable Applications for DCAMKL1 recombinant protein	WB (Western Blot), Kinase Assay
Tag	HIS
Species	Human
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES

SDS-PAGE
Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.

Activity
Specific Activity: Sample Activity Plot. For specific information on a given lot, see related technical data sheet.

ADDITIONAL INFORMATION

Related Product Information for DCAMKL1 recombinant protein	Full-length recombinant human DCAMKL1 was expressed by baculovirus in Sf9 cells using an N-terminal his tag. The gene accession number is NM_004734. DCAMKL1 or doublecortin-like kinase 1 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+/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)(1). DCAMKL1 is a microtubule-associated kinase that can undergo autophosphorylation. DCAMKL1 has microtubule-polymerizing activity that is independent of its protein kinase activity (2). DCAMKL1 is involved in several different cellular processes, including neuronal migration, retrograde transport, neuronal apoptosis and neurogenesis.
Product Categories/Family for DCAMKL1 recombinant protein	Protein Kinases; Cardiovascular Disease; ERK/MAPK Pathway; Neurobiology; PKA/PKC Pathway; Ser/Thr Kinases

References	1. Ohmae, S. et.al: Molecular identification and characterization of a family of kinases with homology to Ca (2+)/calmodulin-dependent protein kinases I/IV. J. Biol. Chem. 281: 20427-20439, 2006. 2. Lin, P. T. et,al: DCAMKL1 encodes a protein kinase with homology to doublecortin that regulates microtubule polymerization. J. Neurosci. 20: 9152-9161, 2000.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #	NM_004734
Molecular Weight	85kDa

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/dcamkl1-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/73402