

# Recombinant Human DCAMKL1 Protein (aa 1-705, His & GST Tag)

PKSH030359 Catalog No.

Note: Centrifuge before opening to ensure complete recovery of vial contents.

### Description

**Synonyms** CL1;CLICK1;DCAMKL1;DCDC3A;DCLK

**Species** Human

Baculovirus-Insect Cells **Expression Host** 

Met 1-Val 705 Sequence Accession O15075-1 Calculated Molecular Weight 106 kDa Observed molecular weight 105 kDa Tag N-His-GST

**Bioactivity** The specific activity was determined to be 6. 1 nmol/min/mg using synthetic

Autocamtide-2 peptide (KKALRRQETVDAL-amide) as substrate.

#### **Properties**

**Purity** > 84 % as determined by reducing SDS-PAGE.

**Endotoxin** < 1.0 EU per µg of the protein as determined by the LAL method.

Storage Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

**Shipping** This product is provided as liquid. It is shipped at frozen temperature with blue

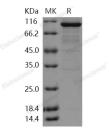
ice/gel packs. Upon receipt, store it immediately at < - 20°C.

Formulation Supplied as sterile solution of 20mM Tris, 500mM NaCl, pH 7.4, 10% glycerol,

0.5mM PMSF

Reconstitution Not Applicable

#### Data



> 84 % as determined by reducing SDS-PAGE.

## **Background**

DCAMKL1; also known as DCLK1; is a member of the protein kinase superfamily and the doublecortin family. It contains two N-terminal doublecortin domains; which bind microtubules and regulate microtubule polymerization; a Cterminal 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

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mediates multiple protein-protein interactions. DCAMKL1 is involved in several different cellular processes; including neuronal migration; retrograde transport; neuronal apoptosis and neurogenesis. Its microtubule-polymerizing activity is independent of its protein kinase activity. DCAMKL1 may be involved in a calcium-signaling pathway controlling neuronal migration in the developing brain. It may also participate in functions of the mature nervous system.

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