

PKDCC Protein, Mouse, Recombinant (His & Myc)

General Information

Synonyms:	Vertebrate lonesome kinase;Protein kinase-like protein SgK493;Pkdcc;Sgk493;Extracellular tyrosine-protein kinase PKDCC;Sugen kinase 493;Vlk;Protein kinase domain-containing protein, cytoplasmic
Protein Construction:	33-492 aa
Species:	Mouse
Expression Host:	Baculovirus Insect Cells
Accession:	Q5RJI4
Molecular Weight:	54.4 kDa (predicted)
AA Sequence:	PRPGQSPGSSAAPGPGRRGGRGELARQIRERYEEVQRYSRGGPGAGRPERRRLMDLAPGGPGLQRPRPP RVRSPPDGAPGWPPAPGPGSPGPGPRLGCAALRNVSQAQYVGSYTKAVYRVRLPGGAVALKAVDFSGH DLGSCVREFGARRGCYRLAAHKLLKEMVLLERLRHPNVLQLYGYCYQDSEGIPDTLTTITELGAPVEMIQLLQT SWEDRFRICLSLGRLLHHLAHSPLGSVTLDFRPRQFVLVNGELKVTDLDDARVEETPCTSSADCTLEFPARNF SLPCSAQGWCEGMNEKRNLYNAYRFFFTYLLPHSAPPSLRPLLDIVNATGELAWGVDETLAQLETALHLFRS GQYLQNSTSSRAEYQRIPDSAITQEDYRCWPSYHHGGCLLSVFNLAEAIDVCESHAQCRAFVVTNQTWTGR KLVFFKTGWNQVVPDAGKTTYVKAPG

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Secreted tyrosine-protein kinase that mediates phosphorylation of extracellular proteins and endogenous proteins in the secretory pathway, which is essential for patterning at organogenesis stages. Mediates phosphorylation of MMP1, MMP13, MMP14, MMP19 and ERP29. May also have serine/threonine protein kinase activity. Required for longitudinal bone growth through regulation of chondrocyte differentiation. May be indirectly involved in protein transport from the Golgi apparatus to the plasma membrane. Probably plays a role in platelets: rapidly and quantitatively secreted from platelets in response to stimulation of platelet degranulation.

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