

Recombinant Human PRKD2/PKD2 Protein (His & GST Tag)

Catalog Number: PKSH030353

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

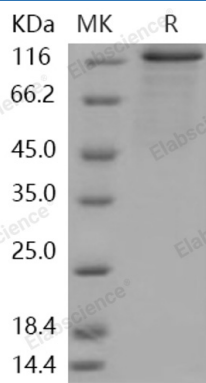
Description

| | |
|----------------------|--|
| Species | Human |
| Source | Baculovirus-Insect Cells-derived Human PRKD2/PKD2 protein Met 1-Leu 878, with an N-terminal His & GST |
| Calculated MW | 124 kDa |
| Observed MW | 120 kDa |
| Accession | NP_057541.2 |
| Bio-activity | The specific activity was determined to be > 30 nmol/min/mg using synthetic CREBtide peptide (KRREILSRRPSYR) as substrate. |

Properties

| | |
|----------------------|---|
| Purity | > 82 % as determined by reducing SDS-PAGE. |
| Concentration | Subject to label value. |
| 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 50mM Tris, 500mM NaCl, 0.5mM PMSF, 10% glycerol, pH 8.0 |

Data



> 82 % as determined by reducing SDS-PAGE.

Background

Serine/threonine-protein kinase D2, also known as PRKD2 and PKD2, is a cytoplasm and membrane protein which belongs to the protein kinase superfamily, CAMK Ser/Thr protein kinase family and PKD subfamily. PRKD2 / PKD2 is widely expressed. It contains one PH domain, two phorbol-ester/DAG-type zinc fingers and one protein kinase domain. PRKD2 / PKD2 is activated by DAG and phorbol esters. Phorbol-ester/DAG-type domains bind DAG, mediating translocation to membranes. Autophosphorylation of Ser-710 and phosphorylation of Ser-706 by PKC relieves auto-inhibition by the PH domain. PRKD2 / PKD2 converts transient diacylglycerol (DAG) signals into prolonged physiological effects, downstream of PKC. Involved in resistance to oxidative stress.

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