

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



Catalog Number:PKSH030353

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

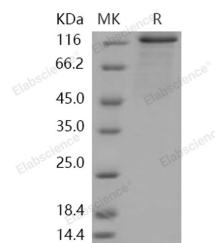
## Description

<b>Synonyms</b>	HSPC187;nPKC-D2;PKD2
<b>Species</b>	Human
<b>Expression Host</b>	Baculovirus-Insect Cells
<b>Sequence</b>	Met 1-Leu 878
<b>Accession</b>	NP_057541.2
<b>Calculated Molecular Weight</b>	124 kDa
<b>Observed molecular weight</b>	120 kDa
<b>Tag</b>	N-His-GST
<b>Bioactivity</b>	The specific activity was determined to be > 30 nmol/min/mg using synthetic CREBtide peptide (KRREILSRRPSYR) as substrate.

## Properties

<b>Purity</b>	> 82 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
<b>Shipping</b>	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.
<b>Formulation</b>	Supplied as sterile solution of 50mM Tris, 500mM NaCl, 0.5mM PMSF, 10% glycerol, pH 8.0
<b>Reconstitution</b>	Not Applicable

## 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.

## For Research Use Only

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