

Recombinant Human Protein Kinase D2

Cat. No. PRKD2-1130H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human PRKD2 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
Description	PRKD2, 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.
Biological Activity	259 nmol phosphate incorporated into CREBtide substrate peptide per minute per mg protein at 30°C for 15 minutes using a final concentration of 50 μ M ATP (0.83 μ i/assay).
Molecular Weight	130.0 kDa
Form	Recombinant proteins in storage buffer (50 mMTris-HCl, pH 7.5, 150 mMNaCl, 0.25 mM DTT, 0.1 MmEGTA, 0.1 mM EDTA, 0.1 mM PMSF, 25% glycerol).

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Appearance	Liquid
Purity	≥80% by SDS-PAGE
Storage	Store product frozen at or below -70°C. Stable for 1 year at -70°C as undiluted stock. Aliquot to avoid repeated thawing and freezing.
Pathways	T Cell Receptor Signaling Pathway
GENE INFORMATION	
Gene Name	PRKD2 protein kinase D2 [Homo sapiens]
Official Symbol	PRKD2
Synonyms	PRKD2; protein kinase D2; PKD2; HSPC187; serine/threonine-protein kinase D2; nPKC-D2; EC 2.7.11.13; DKFZP586E0820
Gene ID	25865
mRNA Refseq	NM_001079880
Protein Refseq	NP_001073349
MIM	607074
UniProt ID	Q9BZL6
Chromosome Location	19q13.3
Function	ATP binding; metal ion binding; nucleotide binding; protein kinase C activity; protein

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serine/threonine kinase activity; transferase activity

PDB rendering based
on 2coa.



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