

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	<p>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.</p>
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 mM Tris-HCl, pH 7.5, 150 mM NaCl, 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

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

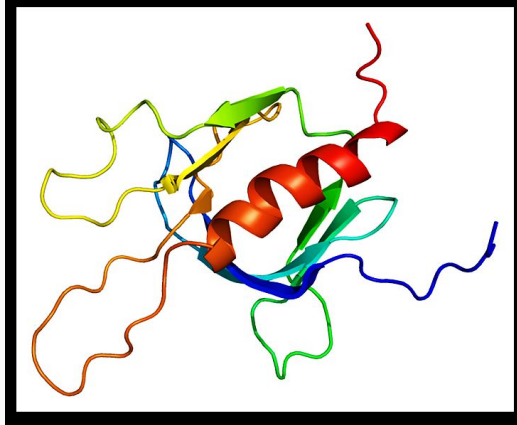
 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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



serine/threonine kinase activity; transferase activity

PDB rendering based
on 2coa.



☎ 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