

Active Recombinant Human PRKD2(G870E), GST-tagged

Cat. No. PRKD2-204H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human PKD2 (G870E) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
Description	PKD2 or polycystic kidney disease 2 is a member of the polycystin protein family which is a multi-pass membrane protein that functions as a calcium permeable cation channel, and is involved in calcium transport and calcium signaling in renal epithelial cells. PKD2 interacts with polycystin 1 and this complex may be partners in a common signaling cascade involved in tubular morphogenesis. PKD2 may function as a chaperone-like molecule, which may prevent ERAD of PKD2. PKD2 form an interaction network with PKD1 as the rate-limiting component.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	The specific activity of PKD2 (G870E) was determined to be 540 nmol /min/mg
Molecular Mass	~130 kDa
Purity	>90% by densitometry
Applications	Kinase Assay, Western Blot

 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

Storage Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

Concentration 0.1 µg/µl

GENE INFORMATION

Gene Name PRKD2 protein kinase D2 [Homo sapiens]

Official Symbol PRKD2

Synonyms PRKD2; protein kinase D2; serine/threonine-protein kinase D2; DKFZP586E0820; HSPC187; PKD2; nPKC-D2;

Gene ID 25865

mRNA Refseq NM_001079880

Protein Refseq NP_001073349

MIM 607074

UniProt ID Q9BZL6

Chromosome Location 19q13.2

Pathway T Cell Receptor Signaling Pathway, organism-specific biosystem;

Function ATP binding; metal ion binding; nucleotide binding; protein binding; protein kinase C

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activity; protein kinase activity; protein serine/threonine kinase activity; protein serine/threonine kinase activity;

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