

## Recombinant Human PRKD3

**Cat. No.** PRKD3-29763TH    **Lot. No.** (See product label)

### SPECIFICATION

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| <b>Product Overview</b>   | Recombinant full length PKC nu protein (Human), was expressed by baculovirus in Sf9 insect cells using a N-terminal tag, MW 142 kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Species</b>            | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>        | <p>Protein kinase C (PKC) is a family of serine- and threonine-specific protein kinases that can be activated by calcium and the second messenger diacylglycerol. PKC family members phosphorylate a wide variety of protein targets and are known to be involved in diverse cellular signaling pathways. PKC family members also serve as major receptors for phorbol esters, a class of tumor promoters. Each member of the PKC family has a specific expression profile and is believed to play a distinct role. The protein encoded by this gene is one of the PKC family members. This kinase can be activated rapidly by the agonists of G protein-coupled receptors. It resides in both cytoplasm and nucleus, and its nuclear accumulation is found to be dramatically enhanced in response to its activation. This kinase can also be activated after B-cell antigen receptor (BCR) engagement, which requires intact phospholipase C gamma and the involvement of other PKC family members.</p> |
| <b>Tissue specificity</b> | Ubiquitous.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Form</b>               | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Storage buffer</b>     | Preservative: None<br>Constituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, pH 7.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>               | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.                                                                                                          |
| <b>Sequence Similarities</b> | Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. PKD subfamily.Contains 1 PH domain.Contains 2 phorbol-ester/DAG-type zinc fingers.Contains 1 protein kinase domain. |
| <b>Full Length</b>           | Full L.                                                                                                                                                                                            |
| <b>GENE INFORMATION</b>      |                                                                                                                                                                                                    |
| <b>Gene Name</b>             | PRKD3 protein kinase D3 [ Homo sapiens ]                                                                                                                                                           |
| <b>Official Symbol</b>       | PRKD3                                                                                                                                                                                              |
| <b>Synonyms</b>              | PRKD3; protein kinase D3; PRKCN, protein kinase C, nu; serine/threonine-protein kinase D3; EPK2;                                                                                                   |
| <b>Gene ID</b>               | 23683                                                                                                                                                                                              |
| <b>mRNA Refseq</b>           | NM_005813                                                                                                                                                                                          |
| <b>Protein Refseq</b>        | NP_005804                                                                                                                                                                                          |
| <b>MIM</b>                   | 607077                                                                                                                                                                                             |
| <b>Uniprot ID</b>            | O94806                                                                                                                                                                                             |
| <b>Chromosome Location</b>   | 2p21                                                                                                                                                                                               |
| <b>Pathway</b>               | G Protein Signaling Pathways, organism-specific biosystem; IL-4 signaling Pathway,                                                                                                                 |

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organism-specific biosystem;

**Function**

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

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