

**Catalog No.: RP03365LQ** **Recombinant**

Species	Gene ID	Swiss Prot
Human	23683	O94806

## N-GST

PRKD3; PKD3; EPK2; PRKCN; Protein kinase C nu type; Protein kinase EPK2; nPKC-nu; PKC nu

Source	Purification
Baculovirus-Insect Cells	≥ 85% as determined by SDS-PAGE; ≥ 85% as determined by HPLC.

## 127.0 kDa      100-130 kDa


< 1 EU/μg of the protein by LAL method.

Supplied as a 0.22 µm filtered solution in 50 mM Tris-HCl, 150 mM NaCl, 20% glycerol, 5 mM DTT, 0.1 M Trehalose. (pH 7.5). Contact us for customized product form or formulation.

Please use running water to thaw it quickly.

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Serine/threonine-protein kinase D3 (PKD3) or PKC- $\nu$  is an enzyme that in humans is encoded by the PRKD3 gene. PRKD3 / PRKCN converts transient diacylglycerol (DAG) signals into prolonged physiological effects, downstream of PKC. It is involved in resistance to oxidative stress. PRKD3 / PRKCN is activated by DAG and phorbol esters. Phorbol-ester/DAG-type domains 1 and 2 bind both DAG and phorbol ester with high affinity and mediate translocation to the cell membrane.

Recombinant Human PKC  $\nu$ /PRKD3 Kinase is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Ser2-Pro890) of Human PRKD3 (Accession #O94806) fused with a N-GST tag.

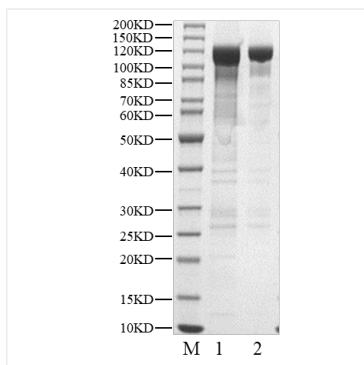
The activity of PRKD3 is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.

Store at -70°C. This product is stable at  $\leq -70^{\circ}\text{C}$  for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.

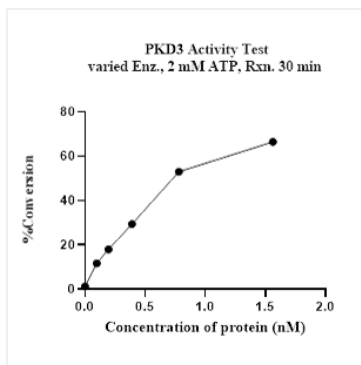
Aliquots below 10  $\mu$ L are not advisable. Product must not be stored in diluted solutions. Avoid repeated freeze-thaw cycles.

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## Validation Data



Recombinant Human PKC nu/PRKD3 Kinase was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions.



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