

Catalog No.: RP03439LQ **Recombinant**

Species	Gene ID	Swiss Prot
Human	25865	O9BZL6

Tags
N-His-GST

Synonyms
PRKD2; PKD2; HSPC187; nPKC-D2;
Serine/threonine-protein kinase D2;
Protein Kinase D2

Source	Purification
Baculovirus-Insect Cells	≥ 90 % as determined by SDS-PAGE; ≥ 90 % as determined by HPLC.

Calculated MW	Observed MW
124.3 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 D2 or PKD2 is an enzyme that in humans is encoded by the PRKD2 gene. The protein encoded by this gene belongs to the protein kinase D (PKD) family of serine/threonine protein kinases, a subfamily of protein kinase C. This kinase can be activated by phorbol esters as well as by gastrin via the cholecystikinin B receptor (CCKBR) in gastric cancer cells. It can bind to diacylglycerol (DAG) in the trans-Golgi network (TGN) and may regulate basolateral membrane protein exit from TGN. Alternative splicing results in multiple transcript variants encoding different isoforms.

Recombinant Human PRKD2 Kinase is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Ala2-Leu878) of Human PRKD2 (Accession #O9BZL6) fused with a N-His-GST tag.

The activity of PRKD2 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.

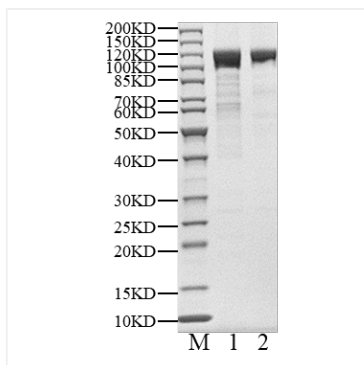
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

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.

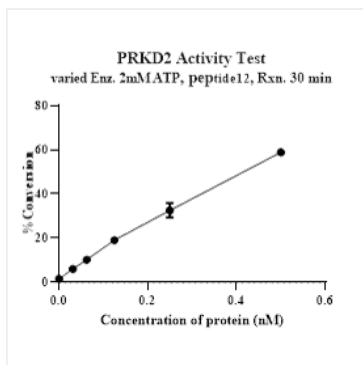
Aliquots below 10 μ L are not advisable. Product must not be stored in diluted solutions. Avoid repeated freeze-thaw cycles.

For your safety and health, please wear a lab coat and disposable gloves for handling.

Validation Data



Recombinant Human PRKD2 Kinase was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions.



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