

Bioactive

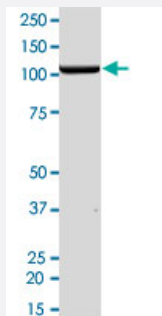
Full-Length

# PRKCQ (Human) Recombinant Protein

Catalog # P4763

Size 100 ug

## Applications



## Result of activity analysis

Result of activity analysis

□

## Specification

|                             |                                                                                                                 |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>  | Human PRKCQ (NM_006257, 1 a.a. - 706 a.a.) full-length recombinant protein with GST tag expressed in Sf9 cells. |
| <b>Host</b>                 | insect                                                                                                          |
| <b>Theoretical MW (kDa)</b> | 109.677                                                                                                         |
| <b>Form</b>                 | Liquid                                                                                                          |
| <b>Preparation Method</b>   | Insect cell (Sf9) expression system                                                                             |
| <b>Purification</b>         | One-step affinity purification using GSH agarose                                                                |
| <b>Concentration</b>        | 0.273 ug/uL                                                                                                     |

|                         |                                                                                            |
|-------------------------|--------------------------------------------------------------------------------------------|
| Activity                | 166 pmol/ug x min                                                                          |
| Quality Control Testing | 2 ug/lane SDS-PAGE Stained with Coomassie Blue                                             |
| Storage Buffer          | In 50 mM Tris-HCl, 100 mM NaCl, pH 8.0. (5 mM DTT, 4 mM reduced glutathione, 20% glycerol) |
| Storage Instruction     | Store at -80°C.<br>Aliquot to avoid repeated freezing and thawing                          |
| Note                    | Result of activity analysis<br>Result of activity analysis                                 |

## Applications

- Functional Study
- SDS-PAGE

## Gene Info — PRKCQ

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Entrez GeneID      | <a href="#">5588</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Protein Accession# | <a href="#">NM_006257</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Gene Name          | PRKCQ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Gene Alias         | MGC126514, MGC141919, PRKCT, nPKC-theta                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Gene Description   | protein kinase C, theta                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Omim ID            | <a href="#">600448</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Gene Ontology      | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Gene Summary       | 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. It is a calcium-independent and phospholipid-dependent protein kinase. This kinase is important for T-cell activation. It is required for the activation of the transcription factors NF-kappaB and AP-1, and may link the T cell receptor (TCR) signaling complex to the activation of the transcription factors. [provided by RefSeq] |
| Other Designations | OTTHUMP00000019053 OTTHUMP00000043364 OTTHUMP00000043365                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## Pathway

- [Adipocytokine signaling pathway](#)
- [T cell receptor signaling pathway](#)
- [Tight junction](#)
- [Vascular smooth muscle contraction](#)

## Disease

- [Alzheimer Disease](#)
- [Arthritis](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Celiac Disease](#)
- [Cerebral Hemorrhage](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hypertension](#)
- [Inflammation](#)
- [Intracranial Hemorrhages](#)
- [Kidney Failure](#)
- [Narcolepsy](#)
- [Prostatic Neoplasms](#)
- [Stroke](#)

- [Subarachnoid Hemorrhage](#)
- [Tobacco Use Disorder](#)
- [Wegener Granulomatosis](#)