

Bioactive

Full-Length

PRKCZ (Human) Recombinant Protein

Catalog # P6547

Size 5 ug

Applications

Result of activity analysis

Result of activity analysis

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Specification

Product Description	Human PRKCZ (NP_002735.3, 1 a.a. - 592 a.a.) full length recombinant protein with GST-tag at N-terminal using baculovirus expression system.
Host	Viruses
Form	Liquid
Preparation Method	Baculovirus expression system.
Purification	Glutathione sepharose chromatography.
Purity	0.97
Activity	The activity was measured by off-chip mobility shift assay. The enzyme was incubated with fluorescently-labeled substrate and Mg (or Mn)/ATP. Substrate: PKC peptide, ATP: 100 uM.
Quality Control Testing	The purity was assessed by SDS-PAGE/CBB staining.
Storage Buffer	50 mM Tris-HCl, 150 mM NaCl, 0.05% Brij35, 1 mM DTT, 10% glycerol, pH7.5
Storage Instruction	Stored at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Result of activity analysis
Result of activity analysis

Applications

- Functional Study

Gene Info — PRKCZ

Entrez GeneID [5590](#)

Protein Accession# [NP_002735.3](#)

Gene Name PRKCZ

Gene Alias PKC-ZETA, PKC2

Gene Description protein kinase C, zeta

Omim ID [176982](#)

Gene Ontology [Hyperlink](#)

Gene Summary Protein kinase C (PKC) zeta is a member of the PKC family of serine/threonine kinases which are involved in a variety of cellular processes such as proliferation, differentiation and secretion. Unlike the classical PKC isoenzymes which are calcium-dependent, PKC zeta exhibits a kinase activity which is independent of calcium and diacylglycerol but not of phosphatidylserine. Furthermore, it is insensitive to typical PKC inhibitors and cannot be activated by phorbol ester. Unlike the classical PKC isoenzymes, it has only a single zinc finger module. These structural and biochemical properties indicate that the zeta subspecies is related to, but distinct from other isoenzymes of PKC. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq]

Other Designations OTTHUMP00000001368|OTTHUMP000000044160

Pathway

- [Chemokine signaling pathway](#)
- [Endocytosis](#)
- [Insulin signaling pathway](#)
- [Tight junction](#)

- [Type II diabetes mellitus](#)

Disease

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)