

# Recombinant Human Protein Kinase C, Zeta

**Cat. No.** PRKCZ-657H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human Protein Kinase C, Zeta is produced in <i>Insect cells</i> . MW=76-80 kDa.                                                                                                                                                                                                                                                                          |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | Insect Cells                                                                                                                                                                                                                                                                                                                                                         |
| <b>Description</b>      | Protein kinase C, zeta (PKC $\zeta$ ) also known as PRKCZ is an enzyme which in humans is encoded by the PRKCZ gene. The PRKCZ gene encodes at least two alternative transcripts, the full-length PKC $\zeta$ and an N-terminal truncated form PKM $\zeta$ . The truncated PKM $\zeta$ is thought to be responsible for maintaining long-term memories in the brain. |
| <b>Purity</b>           | >75% (SDS-PAGE).                                                                                                                                                                                                                                                                                                                                                     |
| <b>Physical Form</b>    | Buffered aqueous solution. Solution in 20 mM HEPES, pH 7.4; 2 mM EDTA, 2 mM EGTA, 5 mM DTT, 250 mM NaCl, 0.05% Triton X-100, and 50% glycerol.                                                                                                                                                                                                                       |
| <b>Storage</b>          | -70°C. Shipped in wet ice.                                                                                                                                                                                                                                                                                                                                           |

## GENE INFORMATION

|                  |                                                                                 |
|------------------|---------------------------------------------------------------------------------|
| <b>Gene Name</b> | PRKCZ protein kinase C, zeta [ Homo sapiens ]                                   |
| <b>Synonyms</b>  | PRKCZ; protein kinase C, zeta; PKC2; PKC-ZETA; EC 2.7.11.13; nPKC-zeta; Protein |

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|                            |                                                                                                                                                                                                                        |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            | kinase C zeta type                                                                                                                                                                                                     |
| <b>Gene ID</b>             | 5590                                                                                                                                                                                                                   |
| <b>mRNA Refseq</b>         | NM_001033581                                                                                                                                                                                                           |
| <b>Protein Refseq</b>      | NP_001028753                                                                                                                                                                                                           |
| <b>MIM</b>                 | 176982                                                                                                                                                                                                                 |
| <b>UniProt ID</b>          | Q05513                                                                                                                                                                                                                 |
| <b>Chromosome Location</b> | 1p36.33-p36.2                                                                                                                                                                                                          |
| <b>Pathway</b>             | Chemokine signaling pathway; Endocytosis; Insulin signaling pathway; Tight junction; Type II diabetes mellitus                                                                                                         |
| <b>Function</b>            | ATP binding; insulin receptor substrate binding; metal ion binding; nucleotide binding; phospholipase binding; potassium channel regulator activity; protein kinase C activity; transferase activity; zinc ion binding |

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