

# Recombinant Full Length Human Protein Kinase C, Iota, His-tagged

**Cat. No.** PRKCI-1303H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |  |   |
|-------------------------|--|---|
| <b>Product Overview</b> | Recombinanthuman full length PRKCI with His-tag was expressed in Insect cells.   |   |
| <b>Species</b>          | Human  |   |
| <b>Source</b>           | Insect Cells   |   |
| <b>ProteinLength</b>    | 1-596 a.a.   |   |
| <b>Description</b>      | <p>The PKCfamily of serine/threonine kinases, including PRKCI, is activatedintracellularly by signal transduction pathways. In humans, at least 12different PKC polypeptides have been identified. These isoforms differ inprimary structure, tissue distribution, subcellular localization, mode ofaction in vitro, response to extracellular signals, and substratespecificity. PKC alpha, beta I, beta II and gamma form the conventional family;their activities are Ca<sup>2+</sup> and phospholipiddependent. No specialmeasures were taken to activate this kinase.</p> |   |
| <b>Form</b>             | Liquid in20 mM HEPES, pH 7.5 + 150 mM NaCl + 0.5 mM EGTA + 0.5 mM EDTA + 0.05% NP-40 +5 mM DTT + 50% glycerol.   |   |
| <b>Storage</b>          | Stablefor 6 months in working aliquots at -80°C. Avoid repeated freeze-thaw cycles.  |   |
| <b>OfficialSymbol</b>   | PRKCI  |   |
| <b>nullValue_other</b>  | Function   | ATP binding; nucleotide binding;protein binding; protein kinase activity; protein s |

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erine/threonine kinase activity; zinc ion binding; metal ion binding; histone kinase activity (H3-T6specific); phospholipid binding

**Full Length** Full L.

## GENE INFORMATION

**Gene Name** [PRKCI protein kinase C, iota \[ Homosapiens \]](#)

**Synonyms** PRKCI; proteinkinase C, iota; PKCI; DXS1179E; MGC26534; nPKC-iota; OTTHUMP00000196630; Proteinkinase C iota type; Atypical protein kinase C-lambda/iota; PRKC-lambda/iota; aPKC-iota; EC 2.7.11.13

**Gene ID** [5584](#)

**mRNA Refseq** [NM\\_002740](#)

**Protein Refseq** [NP\\_002741](#)

**MIM** [600539](#)

**UniProt ID** [P41743](#)

**Chromosome Location** 3q26.3

**Pathway** Cell junction organization; EGFR1 Signaling Pathway; Endocytosis; G Protein Signaling Pathways; IL-4 signaling Pathway; IL1-mediated signaling events; Insulin-mediated glucose transport; Neurotrophic factor-mediated Trk receptor signaling; Signal Transduction; Signalling by NGF; TNF receptor signaling pathway; Tight junction; Wnt Signaling Pathway; p75 NTR receptor-mediated signalling

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