

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

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

SPECIFICATION

Product Overview	Recombinanthuman full length PRKCI with His-tag was expressed in Insect cells.	
Species	Human	
Source	Insect Cells	
ProteinLength	1-596 a.a.	
Description	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 Ca²⁺ and phospholipiddependent. No specialmeasures were taken to activate this kinase.	
Form	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.	
Storage	Stablefor 6 months in working aliquots at -80°C. Avoid repeated freeze-thaw cycles.	
OfficialSymbol	PRKCI	
nullValue_other	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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