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Recombinant human PKC iota protein

Catalog Number: ATGP4081

PRODUCT INFORMATION

Expression system

HEK293

Domain

1-596aa

UniProt No.

P41743

NCBI Accession No.

NP 002731.4

Alternative Names

DXS1179E, nPKC-iota, PKCI, aPKC-lambda/iota, PRKC-lambda/iota, Protein kinase C iota type, Atypical protein kinase C-lambda/iota, PRKCL, Protein Kinase C iota, PRKCI

PRODUCT SPECIFICATION

Molecular Weight

69kDa(602aa)

Concentration

0.5mg/ml (determined by Absorbance at 280nm)

Formulation

Liquid. In Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 80% by SDS - PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

PKC iota, also known as Protein Kinase C iota, is a member of serine/threonine protein kinases family. It play a key regulatory role in a number of cellular functions including cell growth and differentiation, hormone secretion, and gene expression. It is involved in cell polarization processes and the formation of epithelial tight junctions.



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This protein kinase is calcium-independent and phospholipid-dependent. It is also implicated in the activation of several signaling pathways including Ras, c-Src and NF-kappa-B pathways. Recombinant human PKC iota, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.

Amino acid Sequence

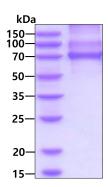
MPTQRDSSTM SHTVAGGGSG DHSHQVRVKA YYRGDIMITH FEPSISFEGL CNEVRDMCSF DNEQLFTMKW IDEEGDPCTV SSQLELEEAF RLYELNKDSE LLIHVFPCVP ERPGMPCPGE DKSIYRRGAR RWRKLYCANG HTFQAKRFNR RAHCAICTDR IWGLGRQGYK CINCKLLVHK KCHKLVTIEC GRHSLPQEPV MPMDQSSMHS DHAQTVIPYN PSSHESLDQV GEEKEAMNTR ESGKASSSLG LQDFDLLRVI GRGSYAKVLL VRLKKTDRIY AMKVVKKELV NDDEDIDWVQ TEKHVFEQAS NHPFLVGLHS CFQTESRLFF VIEYVNGGDL MFHMQRQRKL PEEHARFYSA EISLALNYLH ERGIIYRDLK LDNVLLDSEG HIKLTDYGMC KEGLRPGDTT STFCGTPNYI APEILRGEDY GFSVDWWALG VLMFEMMAGR SPFDIVGSSD NPDQNTEDYL FQVILEKQIR IPRSLSVKAA SVLKSFLNKD PKERLGCHPQ TGFADIQGHP FFRNVDWDMM EQKQVVPPFK PNISGEFGLD NFDSQFTNEP VQLTPDDDDI VRKIDQSEFE GFEYINPLLM SAEECV<HHHH HH>

General References

Dey A et al, (2021) Cell Signal. 77:109819. Li HS et al, (2019) | Neurosci. 39:5773-5793.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

