
Product Data Sheet

Product Name: PRKCI Human
 Cat. No.: GP26195
 Batch No.: 1

Product Data

Purity	>98%	Source	HEK293 Cells.
Physical Appearance	solid	Shipping Condition	withIcePacks
Synonyms	DXS1179E, nPKC-iota, PKCI, aPKC-lambda/iota, PRKC-lambda/iota, PRKCL, Protein kinase C iota type, Protein Kinase C iota, Atypical protein kinase C-lambda/iota, PRKCI.		
Amino Acid Sequence	<p>MPTQRDSSTM SHTVAGGGSG DSHQVRVKA YYRGDIMITH FEPSISFEG CNEVRDMCSF DNEQLFTMKW IDEEGDPCTV SSQLELEEAF RLYELNKDSE LLIHVFPVCP ERPGMPCPGE DKSIYRRGAR RWRKLYCANG HTFQAKRFNR RAHCAICTDR IWGLGRQGYK CINCKLLVHK KCHKLVITIEC GRHSLPQEPV MPMDQSSMHS DHAQTVIPYN PSSHESLDQV GEEKEAMNTR ESGKASSSLG LQDFDLLRVI GRGSYAKVLL VRLKKTDRYI AMKVVKKELV NDDDEDWVQ TEKHVFEQAS NHPFLVGLHS CFQTESRLFF VIEYVNGGDL MFHMQRQRKL PEEHARFYSA EISLALNYLH ERGIIYRDLK LDNVLLDSEG HIKLTDYGMC KEGLRPGDTT STFCGTPNYI APEILRGEDY GFSVDWWALG VLMFEMMAGR SPFDIVGSSD NPDQNTEDYL FQVILEKQIR IPRSLSVKAA SVLKSFLNKD PKERLGCHPQ TGFADIQGHF FFRNVDWDMM EQKQVPPFK PNISGEFGLD NFDSQFTNEP VQLTPDDDDI VRKIDQSEFE GFEYINPLLM SAEECVHHHH HH</p>		
Formulation	The PRKCI solution (0.5mg/ml) contains 10% Glycerol and Phosphate-Buffered Saline (pH 7.4).		

Introduction

PRKCI, AKAPKC iota, is part of serine/threonine protein kinases family. It takes a key regulatory role in a number of cellular functions including hormone secretion, cell growth differentiation, and gene expression. It is involved in cell polarization processes and the formation of epithelial tight junctions. This protein kinase is calcium-independent and phospholipid-dependent. It is also implicated in the activation of several signal-pathways such as Ras, and NF-kappa-B, c-Src pathways.

Caution: Product has not been fully validated for medical applications. For research use only.

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Stability

Store at 46yC if entire vial will be used within 2-4 weeks. Store, frozen at -206yC for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

PRKCI Human Recombinant produced in HEK cells is a single, glycosylated, polypeptide chain (1-596 a.a) containing a total of 602 amino acids, having a molecular mass of 69kDa. PRKCI is fused to a 6 amino acid His-tag at C-terminus, and is purified by proprietary chromatographic techniques.

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