Active Recombinant Full Length Human protein kinase C, Alpha, His-tagged

Cat. No. PRKCA-1301H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Therecombinant human PRKCA was expressed in E. coli and purified by Ni-agarose chromatography.It is suitable for labeling PKC substrates.
Species	Human
Source	E.coli
ProteinLength	1-672 a.a.
Description	PRKCA isa serine/threonine kinase and a member of the conventional (classical) PKCs(cPKCs), which have four conserved (C1 to C4) regions. This ubiquitouslyexpressed PKC isotype is activated in response to many different kinds ofstimuli and translocates from cytosol to the specialized cellularcompartments (nucleus, focal adhesion, caveolae, etc.) where it is presumedto work. Therefore, PRKCA has been implicated in a variety of cellularfunctions including proliferation, apoptosis, differentiation, motility, andinflammation.
Form	Liquid ina 20 mM NaH2PO4 buffer, pH 7.8, + 500 mM NaCl + 1 mM Na-orthovanadate + 5 mMNaF + 40 mM β-glycerophosphate + 5% glycerol.
Molecular Weight	81.9 kDa
Purity	> 95% by SDS-PAGE

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Specific Activity	>200,000 U/mg (1 Unit is defined as 1 picomole phosphate transferred to PKCpeptide QKRPSQRSKYL per min at 30°C).
Endotoxin Level	< 0.1ng/μg of protein.
Storage	For longterm storage, aliquot and freeze at -80°C. Stable for 1 year. Avoid repeated freeze-thawcycles.
OfficialSymbol	PRKCA
nullValue_other	Function: nucleotide binding; proteinbinding; protein kinase activity; protein serine/threonine kinase activity; zincion binding; metal ion binding; histone kinase activity (H3-T6 specific); enzymebinding; ATP binding

GENE INFORMATION

Gene Name	PRKCA protein kinase C, alpha [Homosapiens]
Synonyms	PRKCA; proteinkinase C, alpha; AAG6; PKCA; PRKACA; MGC129900; MGC129901; PKC-alpha; proteinkinase C, alpha type; PKC-A; aging-associated gene 6; EC2.7.11.13
Gene ID	5578
mRNA Refseq	NM_002737
Protein Refseq	NP_002728
MIM	176960
UniProt ID	P17252

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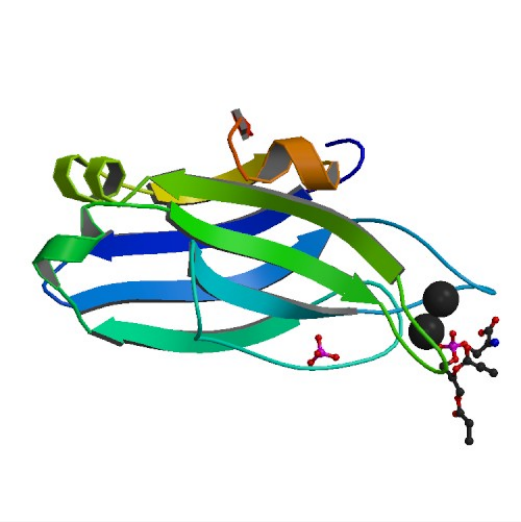
Chromosome Location	17q22-q24
Pathway	ATF-2 transcription factornetwork; African trypanosomiasis; Aldosterone-regulated sodium reabsorption; Alpha6-Beta4Integrin Signaling Pathway; Amoebiasis; Ca-dependent events; CaM pathway; CalciumRegulation in the Cardiac Cell; Calcium signaling pathway; Calmodulin inducedevents; Canonical NF-kappaB pathway; Cholinergic synapse; DAG and IP3signaling; Disinhibition of SNARE formation; Dopaminergic synapse
Rendering based onPDB 1dsy.	

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