

Recombinant Human A-kinase (PRKA) Anchor Protein 7, His-tagged

Cat. No. AKAP7-2395H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanAKAP7 protein, fused to His-tag at N-terminus, was expressed in E.coli andpurified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	AKAP7 (A-kinaseanchor protein 7 isoform gamma isoform alpha) , also known as AKAP18, belongsto the A-kinase anchoring protein (AKAP) family, a group of functionallyrelated proteins that bind to a regulatory subunit (RII) of cAMP-dependentprotein kinase A (PKA) and target the enzyme to specific subcellularcompartments. AKAP 7 is expressed in brain, heart, lung, pancreas andskeletal muscle. AKAP 7 binds PKA to the plasma membrane, and permitsfunctional coupling to the L-type calcium channel
Form	Liquid. In 20 mMTris-HCl buffer, pH8.0, 10% glycerol, 1mM DTT, 50mM NaCl
Molecular Weight	11.5kDa (105aa),confirmed by MALDI-TOF
Purity	> 90% by SDS -PAGE
Concentration	1mg/ml (determinedby Bradford assay)
Sequences of	MGSSHHHHHHSSGLVPRGSH MGSHMGQLCC FPFSRDEGKI SEKNGGEPDD

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aminoacids	AELVRLSKRL VENAFLKAVQ QYLEETQNKKNKPGEGSSVKT EAADQNGNDN ENNRK
Storage	Stored at +4°C shortterm (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Officialsymbol	AKAP7
GENE INFORMATION	
Gene Name	AKAP7 A kinase (PRKA) anchorprotein 7 [Homo sapiens]
Synonyms	A kinase(PRKA) anchor protein 7; A-kinase anchor protein 7; A-kinase anchor protein 7 isoform alpha; A-kinase anchor protein 7 isoform gamma; Protein kinaseA-anchoring protein 7 isoform gamma; A-kinase anchor protein 7 isoforms alphaand beta; Protein kinase A-anchoring protein 7 isoforms alpha/beta; A-kinaseanchor protein 9 kDa; A-kinase anchor protein 18 kDa; A-kinase anchorprotein, 18-kD; A-kinase anchoring protein 18; protein kinase A anchoringprotein 7; AKAP15; AKAP18; AKAP 18; OTTHUMP00000017200; OTTHUMP00000017201; OTTHUMP00000017202; OTTHUMP00000239966; AKAP-7 isoform gamma; AKAP-7 isoformsalpha and beta
Gene ID	9465
mRNA Refseq	NM_004842
Protein Refseq	NP_004833
MIM	604693
UniProt ID	Q6P4D3

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Chromosome Location	6q23
Pathway	GProtein Signaling Pathways
Function	AMPbinding; catalytic activity; kinase activity; protein C-terminus binding;protein complex scaffold; protein domain specific binding; protein kinase A binding; protein kinase A binding; protein kinase A regulatory subunitbinding

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