

Recombinant Human AKAP5, His-tagged

Cat. No. AKAP5-23H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human A-Kinase Anchor Protein 5/AKAP5 is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Met1-Gln427) of Human AKAP5 fused with a 6His tag at the C-terminus.

Species Human

Source HEK293

ProteinLength 1-427 a.a.

Description A-Kinase Anchor Protein 5 (AKAP5) is a member of the AKAP family. AKAP5 contains one AKAP domain and is predominantly expressed in the cerebral cortex. AKAP5 may anchor the PKA protein to cytoskeletal and/or organelle-associated proteins, targeting the signal carried by cAMP to specific intracellular effectors. AKAP5 association with to the β -2-adrenergic receptor (β 2-AR) not only regulates β 2-AR signaling pathway, but also the activation by PKA by switching off the β 2-AR signaling cascade.

AA Sequence

METTISEIHVENKDEKRSAEGSPGAERQKEKASMLCFKRRKKAALKPKAGSEAA
 DVARKCPQE AGASDQPEPTRGAWASLKRLVTRRKRSESSKQQKPLEGEMQPAINA
 EDADLSKKAASRLKIPCI KFPRGPKRSNHSHKIIEDSDCSIKVQEEAEILDQITQTPLN
 DQATKAKSTQDLSEGISRKDGDEVC ESNVSNISITSGEKVISVELGLDNGHSAIQTGT
 LILEEIIETIKEKQDVQPQQASPLETSETDHHQQP VLSVPPPLPAIPDQQQIVVEASNSTLE
 SAPNGKDYESTEIVAEETKPKDTELSQESDFKENGITEE KSKSEESKRMEPIAIIITDT

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EISEFDVTKSKNVPKQFLISAENEQVGVFANDNGFEDRTSEQYET LLIETASSLVKNA
IQLSIEQLVNEMASDDNKINLLQVDHHHHHH

Endotoxin Less than 0.1 ng/μg (1 IEU/μg).

Purity Greater than 95% as determined by reducing SDS-PAGE.

GENE INFORMATION

Gene Name [AKAP5 A kinase \(PRKA\) anchor protein 5 \[Homo sapiens \]](#)

Official Symbol AKAP5

Synonyms AKAP5; A kinase (PRKA) anchor protein 5; A-kinase anchor protein 5; AKAP75; AKAP79; AKAP-5; AKAP 79; A-kinase anchor protein 79 kDa; A-kinase anchor protein, 79kDa; A-kinase anchoring protein 75/79; cAMP-dependent protein kinase regulatory subunit II high affinity binding protein; cAMP-dependent protein kinase regulatory subunit II high affinity-binding protein; H21;

Gene ID [9495](#)

mRNA Refseq [NM_004857](#)

Protein Refseq [NP_004848](#)

MIM [604688](#)

UniProt ID [P24588](#)

Chromosome Location 14q21-q24

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Pathway

Calcium signaling in the CD4+ TCR pathway, organism-specific biosystem; G Protein Signaling Pathways, organism-specific biosystem; Glutamate Binding, Activation of AMPA Receptors and Synaptic Plasticity, organism-specific biosystem; Integration of energy metabolism, organism-specific biosystem; Metabolism, organism-specific biosystem; Neuronal System, organism-specific biosystem; Neurotransmitter Receptor Binding And Downstream Transmission In The Postsynaptic Cell, organism-specific biosystem;

Function

adenylate cyclase binding; calmodulin binding; protein binding; protein kinase A binding;

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