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## Datasheet for ABIN7552137 **AKAP5 Protein (AA 1-427) (His tag)**

### Overview

Quantity:	1 mg
Target:	AKAP5
Protein Characteristics:	AA 1-427
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This AKAP5 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Purpose:	Custom-made recombinat AKAP5 Protein expressed in mammalian cells.
Sequence:	METTISEIHV ENKDEKRSAE GSPGAERQKE KASMLCFKRR KKAALKPK AGSEAADVAR KCPQEAGASD QPEPTRGAWA SLKRLVTRRK RSESSKQKP LEGEMQPAIN AEDADLSKKK AKSRLKIPCI KFPRGPKRSN HSKIIEDSDC SIKVQEEAEI LDIQTQTPLN DQATKAKSTQ DLSEGSRKD GDEVCSNVS NSTTSGEKVI SVELGLDNGH SAIQTGLLIL EEIETIKEKQ DVQPQASPL ETSETDHQQP VLSDVPPLPA IPDQQIVEEA SNSTLESAPN GKDYESTEIV AEETKPKDTE LSQESDFKEN GITEEKSKSE ESKRMEPIAI IITDTEISEF DVTKSKNVPK QFLISAENEQ VGVFANDNGF EDRTSEQYET LLIETASSLV KNAIQLSIEQ LVNEMASDDN KINLLQ <b>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</b>

Characteristics:	Key Benefits:
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## Product Details

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- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

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Purity: > 90 % as determined by Bis-Tris Page, Western Blot

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Grade: custom-made

## Target Details

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Target: AKAP5

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Alternative Name: AKAP5 ([AKAP5 Products](#))

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Target Type: Viral Protein

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Background: A-kinase anchor protein 5 (AKAP-5) (A-kinase anchor protein 79 kDa) (AKAP 79) (H21) (cAMP-dependent protein kinase regulatory subunit II high affinity-binding protein),FUNCTION: Multivalent scaffold protein that anchors the cAMP-dependent protein kinase/PKA to cytoskeletal and/or organelle-associated proteins, targeting the signal carried by cAMP to specific intracellular effectors (PubMed:1512224). Association with the beta2-adrenergic receptor (beta2-AR) not only regulates beta2-AR signaling pathway, but also the activation by PKA by switching off the beta2-AR signaling cascade. Plays a role in long term synaptic potentiation by regulating protein trafficking from the dendritic recycling endosomes to the plasma membrane and controlling both structural and functional plasticity at excitatory synapses (PubMed:25589740). {ECO:0000269|PubMed:1512224, ECO:0000269|PubMed:25589740}.

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Molecular Weight: 47.1 kDa

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## Target Details

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UniProt: [P24588](#)

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Pathways: [cAMP Metabolic Process](#)

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## Application Details

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Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months

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