# Recombinant AK17A protein (His tag)

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| **Catalog Number** | 537951 |
| **Synonyms** | AKAP-17A; 721P; B-lymphocyte antigen; Protein XE7; Protein kinase A-anchoring protein 17A; PRKA17A; Splicing factor, arginine/serine-rich 17A |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | Q02040 |
| **Molecular Weight** | Predictes a molecular mass of 50.46 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 57 kDa band. |

## Product Information

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| **Sequence Region** | 1-413 |
| **Form** | Lyophilized powder |
| **Formulation** | Lyophilized from sterile PBS, pH 7.4 |
| **Purity** | >89%, by SDS-PAGE with Coomassie Brilliant Blue staining. |
| **Endotoxin** | Not tested. |
| **Activity** | Not tested. |
| **Stability** | Samples are stable for up to twelve months from date of receipt at -70℃ |
| **Protein Construction** | DNA encoding 1-413 aa (Q02040) were fused with 6His tag. |

## Storage & Handling

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| **Reconstitution** | Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. |
| **Storage** | Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |
| **Shipping** | In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature.<br>Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise. |

## Description

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| **Description** | Recombinant Human A-kinase anchor protein 17A (AKAP17A) fragment (residues 1-413) is a high-purity protein designed to encompass the full RRM domain. This fragment serves as an essential tool for investigating AKAP17A's role in alternative splicing regulation and PKA-dependent mechanisms, enabling targeted functional studies.<br>A-kinase anchor protein 17A (AKAP17A) is a splicing factor that regulates alternative splice site selection in mRNA precursors. It mediates pre-mRNA splicing in a protein kinase A (PKA)-dependent manner, highlighting its importance in post-transcriptional gene regulation. The protein localizes to nuclear speckles, subcellular structures involved in RNA splicing and processing, underscoring its functional relevance in nuclear splicing machinery. This recombinant fragment provides a focused approach to study the domain-specific contributions of AKAP17A to splicing regulation. |