

# Recombinant Human AKAP7 Protein, MYC/DDK-tagged, C13 and N15-labeled

**Cat. No.** AKAP7-101H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | AKAP7 MS Standard C13 and N15-labeled recombinant protein (NP_004833) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | This gene encodes a member of the A-kinase anchoring protein (AKAP) family, a group of functionally related proteins that bind to a regulatory subunit (RII) of cAMP-dependent protein kinase A (PKA) and target the enzyme to specific subcellular compartments. AKAPs have a common RII-binding domain, but contain different targeting motifs responsible for directing PKA to distinct intracellular locations. Three alternatively spliced transcript variants encoding different isoforms have been described. |
| <b>Molecular Mass</b>   | 8.8 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>AA Sequence</b>      | MGQLCCFPFSRDEGKISEKNGGEPDDAELVRLSKRLVENAVLKAVQQYLEETQKNK<br>KPGEGSSVKTEAADQNGNDNENNRKTRTRPLEQKLISEEDLAANDILDYKDDDDKV                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Stability</b>        | Stable for 3 months from receipt of products under proper storage and handling conditions.                                                                                                                                                                                                                                                                                                                                                                                                                           |

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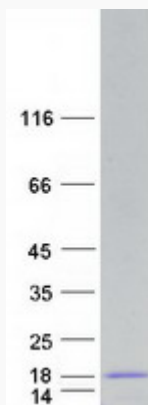
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|                         |                                                                                                                                                                                             |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>          | Store at -80 centigrade. Avoid repeated freeze-thaw cycles.                                                                                                                                 |
| <b>Concentration</b>    | 50 µg/mL as determined by BCA                                                                                                                                                               |
| <b>Storage Buffer</b>   | 100 mM glycine, 25 mM Tris-HCl, pH 7.3.                                                                                                                                                     |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                             |
| <b>Gene Name</b>        | AKAP7 A-kinase anchoring protein 7 [ Homo sapiens (human) ]                                                                                                                                 |
| <b>Official Symbol</b>  | AKAP7                                                                                                                                                                                       |
| <b>Synonyms</b>         | AKAP7; A-kinase anchoring protein 7; AKAP15; AKAP18; A-kinase anchoring protein 7; A kinase (PRKA) anchor protein 7; A-kinase anchor protein 18 kDa; A-kinase anchor protein 9 kDa; AKAP 18 |
| <b>Gene ID</b>          | 9465                                                                                                                                                                                        |
| <b>mRNA Refseq</b>      | NM_004842                                                                                                                                                                                   |
| <b>Protein Refseq</b>   | NP_004833                                                                                                                                                                                   |
| <b>MIM</b>              | 604693                                                                                                                                                                                      |
| <b>UniProt ID</b>       | O43687                                                                                                                                                                                      |

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**SDS-PAGE**

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