

Recombinant Human AK4 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. AK4-2606H **Lot. No.** (See product label)

SPECIFICATION

| | |
|-------------------------|--|
| Product Overview | AK3L1 MS Standard C13 and N15-labeled recombinant protein (NP_001005353) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells. |
| Species | Human |
| Source | HEK293 |
| Description | This gene encodes a member of the adenylate kinase family of enzymes. The encoded protein is localized to the mitochondrial matrix. Adenylate kinases regulate the adenine and guanine nucleotide compositions within a cell by catalyzing the reversible transfer of phosphate group among these nucleotides. Five isozymes of adenylate kinase have been identified in vertebrates. Expression of these isozymes is tissue-specific and developmentally regulated. A pseudogene for this gene has been located on chromosome 17. Three transcript variants encoding the same protein have been identified for this gene. Sequence alignment suggests that the gene defined by NM_013410, NM_203464, and NM_001005353 is located on chromosome 1. |
| Molecular Mass | 25.3 kDa |
| AA Sequence | MASKLLRAVILGPPGSGKGTVSQRIAQNFGLQHLSSGHFLRENIKASTEVEGEMAKQY IEKSLVDPDHVITRLMMSELENRRGQHWLLDGFPRTLGQAEALDKICEVDLVISLNIPF ETLKDRLSRRWIHPPSGRVYNLDFNPPHVHGIDDVTGEPLVQQEDDKPEAVAARLR QYKDVAKPVIELYKSRGVLHQFSGTETNKIWPYVYTLFSNKITPIQSKEAYTRTRPLE |

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QKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name [AK4 adenylate kinase 4 \[Homo sapiens \(human\) \]](#)

Official Symbol [AK4](#)

Synonyms AK4; adenylate kinase 4; adenylate kinase 3, adenylate kinase 3 like 1, AK3, AK3L1; adenylate kinase isoenzyme 4, mitochondrial; adenylate kinase 3-like 1; ATP-AMP transphosphorylase; GTP:AMP phosphotransferase; mitochondrial adenylate kinase-3; nucleoside-triphosphate-adenylate kinase; AK3; AK3L1; AK3L2; MGC166959;

Gene ID [205](#)

mRNA Refseq [NM_001005353](#)

Protein Refseq [NP_001005353](#)

MIM [103030](#)

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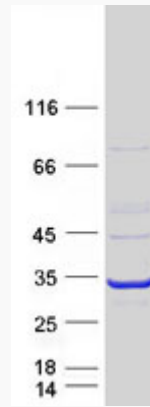
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UniProt ID

P27144

SDS-PAGE



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