

# Recombinant Human AK5 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** AK5-5666H    **Lot. No.** (See product label)

## SPECIFICATION

### Product Overview

AK5 MS Standard C13 and N15-labeled recombinant protein (NP\_036225) 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, which is involved in regulating the adenine nucleotide composition within a cell by catalyzing the reversible transfer of phosphate groups among adenine nucleotides. This member is related to the UMP/CMP kinase of several species. It is located in the cytosol and expressed exclusively in brain. Alternatively spliced transcript variants encoding distinct isoforms have been identified for this gene.

### Molecular Mass

60.2 kDa

### AA Sequence

MCSKPEDPVEYLESCLQVKELGGCDKVKWDTFVSQEKKTLPLNGGQSRRSFLR  
 NVMPGNSNFPYRRYDRLPPIHQFSIESDTDLSETAELIEEYEVDPTRPRPKIILVIGG  
 PGSGKGTQSLKIAERYGFQYISVGELLRKKIHSTSSNRKWSLIAKIITGELAPQETTIT  
 EIKQKLMQIPDEEGIVIDGFPRDVAQALSFDQICTPDLVVFLACANQRLKERLLKRAE  
 QQGRPDDNVKATQRRMLNFKQNAAPLVKYFQEKGLIMTFDADRDEDEVFYDISMAV  
 DNKLFPNKEAAAGSSDLDPMSMILDTGEIIDTGSDYEDQGDDQLNVFGEDTMGGFME  
 DLRKCKIIFIIGGPGSGKGTQCEKLVEKYGFTHLSTGELLREELASESERSKLIRDIME

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RGDLVPSGIVLELLKEAMVASLGDTRGFLIDGYPREVKQGEEFGRRIGDPQLVICMD  
 CSADTMTNRLLRSSLPVDDTTKTIKRLEAYYRASIPVIAYYETKTQLHKINAEGT  
 PEDVFLQLCTAIDSIFTRTRPLEQKLISEEDLAANDILDYKDDDDKV

**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** [AK5 adenylate kinase 5 \[ Homo sapiens \(human\) \]](#)

**Official Symbol** [AK5](#)

**Synonyms** AK5; adenylate kinase 5; adenylate kinase isoenzyme 5; AK 5; adenylate kinase 6; ATP-AMP transphosphorylase 5; AK6; MGC33326;

**Gene ID** [26289](#)

**mRNA Refseq** [NM\\_012093](#)

**Protein Refseq** [NP\\_036225](#)

**MIM** [608009](#)

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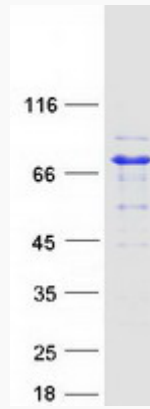
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UniProt ID

Q9Y6K8

SDS-PAGE



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