

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

Cat. No. AK5-1847H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

AK5 MS Standard C13 and N15-labeled recombinant protein (NP_777283) 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

63.2 kDa

AA Sequence

MNTNDAKEYLARREIPQLFESLLNGLMCSKPEDPVEYLESCLQKVKELGGCDKVKW
 DTFVVSQEKKTLPLNGGQSRRSFLRNVMPENSFPYRRYDRLPPIHQFSIESDSDL
 ETAELIEEYEVDPTRPRPKIILVIGGPGSGKGTQSLKIAERYGFQYISVGELLRKKIHS
 TSSNRKWSLIAKIITTGELAPQETTITEIKQKLMQIPDEEGIVIDGFPRDVAQALSFDQI
 CTPDLVVFLACANQRLKERLLKRAEQQGRPDDNVKATQRRLMNFKQNAAPLVKYF
 QEKGLIMTFDADRDEDEVFYDISMAVDNKLFPNKEAAAGSSDLDPMSMILDTGEIIDTG
 SDYEDQGDDQLNVFGEDTMGGFMEDLRKCKIIFIIGGPGSGKGTQCEKLVEKYGFT

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HLSTGELLREELASESERSKLIRDIMERGDLVPSGIVLELLKEAMVASLGDTRGFLIDG
 YPREVKQGEEFGRRIGDPQLVICMDCSADTMTNRLQLQSRSSLPVDDTTKTIKRLE
 AYYRASIPVIAYYETKTQLHKINAEGTPEDVFLQLCTAIDSIFTRTRPLEQKLISEEDLA
 ANDILDYKDDDDKV

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_174858](#)

Protein Refseq [NP_777283](#)

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MIM	608009
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UniProt ID	Q9Y6K8
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