

## Recombinant Human Adenylate Kinase 5, His-tagged

**Cat. No.** AK5-1348H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human AK5 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography. MW: 65.9 kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-562aa
<b>Description</b>	AK5, also known as adenylate kinase isoenzyme 5, is 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.
<b>Form</b>	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 1mM DTT.
<b>Molecular Mass</b>	65.9 kDa (586aa)
<b>AA Sequence</b>	MGSSHHHHHH SSSLVPRGSH MGSHMNTNDA KE YMARREIP QLFESLLNGL MCSKPEDPVE YLESCLQKVK ELGGCDKVKW DTFVSQEKKT LPPLNGGQSR RSFLRNVMPG NSNFPYRRYD RLPPIHQFSI ESDTDLSETA ELIEEYEVFD PT RPRPKIIL VIGGPGSGKG TQSLKIAERY GFQYISVGEL LRKKIHSTSS NRKWSLIAKI IT TGELAPQE TTITEIKQKL MQIPDEEGIV IDGFPRDVAQ ALSFEDQICT PDLVVFLACA NQRLKERLLK RAEQQGRPDD NVKATQRRLM NFKQNAAPLV

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KYFQEKG LIM TFDADRDEDE VF YDISMAVD NKLFPNKEAA AGSSDLDP SM  
 ILDTGEIIDT GSDYEDQGDD QLNVFGEDTM GG FMEDLRKC KIIFIIGGPG  
 SGKGTQCEKL VEKYGFTHLS TGELLREELA SESERSKLIR DIMERGD LVP  
 SGIVLELLKE AMVASLGDTR GFLIDGYPRE VKQGEEFGRR IGDPQLVICM DC  
 SADTMTNR LLQRSRSSLP VDDTTKTI AK RLEAYYRASI PVIAYYETKT  
 QLHKINAEGT PEDVFLQLCT AIDSIF

**Purity** >85% by SDS-PAGE

**Applications** SDS-PAGE

**Storage** Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**Concentration** 0.25 mg/ml (determined by Bradford assay)

## GENE INFORMATION

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

**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](#)

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<b>MIM</b>	608009
<b>UniProt ID</b>	Q9Y6K8
<b>Chromosome Location</b>	1p31
<b>Pathway</b>	Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of nucleotides, organism-specific biosystem; Purine metabolism, organism-specific biosystem; Purine metabolism, conserved biosystem; Synthesis and interconversion of nucleotide di- and triphosphates, organism-specific biosystem;
<b>Function</b>	ATP binding; adenylate kinase activity; cAMP-dependent protein kinase regulator activity; nucleoside kinase activity; nucleotide binding; transferase activity;

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