

Recombinant Human Adenylate Kinase 5, His-tagged

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	E.coli
ProteinLength	1-562aa
Description	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.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 1mM DTT.
Molecular Mass	65.9 kDa (586aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSHMNTNDA KE YMARREIP QLFESLLNGL MCSKPEDPVE YLESLQKVK ELGGCDKVKW DTFVSQEKKT LPPLNGGQSR RSFLRNVMPG NSNFPYRRYD RLPIHQFSI ESDTDLSETA ELIEEYEVFD PT RPRPKIIL VIGGPGSGKG TQSLKIAERY GFQYISVGEL LRKKIHSTSS NRKWSLIAKI IT TGELAPQE TTITEIKQKL MQIPDEEGIV IDGFPRDVAQ ALSFEDQICT PDLVVFLACA NQRLKERLLK RAEQQGRPDD NVKATQRRML NFKQNAAPLV

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KYFQEKGLIM TFDADRDEDE VF YDISMAVD NKLFPNKEAA AGSSDLDP
 ILDTGEIIDT GSDYEDQGDD QLNVFGEDTM GG FMEDLRKC KIIFIIGGPG
 SGKGTQCEKL VEKYGFTHLS TGELLREELA SESERSKLIR DIMERGDLVP
 SGIVLELLKE AMVASLGDTR GFLIDGYPRE VKQGEEFGRR IGDPQLVICM DC
 SADTMTNR LLQRSRSSLP VDDTTKTIK 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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MIM	608009
UniProt ID	Q9Y6K8
Chromosome Location	1p31
Pathway	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;
Function	ATP binding; adenylate kinase activity; cAMP-dependent protein kinase regulator activity; nucleoside kinase activity; nucleotide binding; transferase activity;

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