

Recombinant Human AK5, His-tagged

Cat. No. AK5-26526TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length Human AK5 with a N terminal His tag. 586 amino acids with a predicted MWt 65.9 kDa including tag.
Species	Human
Source	E.coli
ProteinLength	562 amino acids
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.
Conjugation	HIS
Molecular Weight	65.900kDa inclusive of tags
Tissue specificity	Brain specific.
Form	Liquid
Purity	by SDS-PAGE

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Storage buffer	pH: 8.00 Constituents: 0.32% Tris HCl, 20% Glycerol, 0.02% DTT
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C long term. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	<p>MGSSHHHHHSSGLVPRGSHMGSHMNTNDAKEYMARREIPQLFESLLNGLMCSKP EDPVEYLESCLQKVKELGCCDKVKWDTFVSQEKKTLPLNGGQSRRSFLRNVMPG NSNFPYRRYDRLPPIHQFSIESDTDLSETAELIEEYEVDPTRPRPKIILVIGGPGSGK GTQSLKIAERYGFQYISVGELLRKKIHSTSSNRKWSLIAKIITTGELAPQETTITEIKQKL MQIPDEEGIVIDGFPRDVAQALSFEQICTPDLVVFLACANQRLKERLLKRAEQQGR PDDNVKATQRRLMNFKQNAAPLVKYFQEKGLIMTFDADRDEDEVFYDISMAVDNKL FPNKEAAAGSSDLDPMSMILDTGEIIDTGS DYEDQGDDQLNVFGEDTMGGFMEDLRK CKIIFIIGGPGSGKGTQCEKLVEKYGFTHLSTGELLREELASESERSKLIRDIMERGDL VPSGIVLELLKEAMVASLGDTRGFLIDGYPREVKQGEEFGRRIGDPQLVICMDCSAD TMTNRLLRSRSSLPVDDTTKTIKRLEAYRASIPVIAYYETKTQLHKINAEGTPEDV FLQLCTAIDSIF</p>
Sequence Similarities	Belongs to the adenylate kinase family.

GENE INFORMATION

Gene Name	AK5 adenylate kinase 5 [Homo sapiens]
Official Symbol	AK5
Synonyms	AK5; adenylate kinase 5; adenylate kinase isoenzyme 5;
Gene ID	26289
mRNA Refseq	NM_012093

Protein Refseq	NP_036225
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;
Function	ATP binding; adenylate kinase activity; cAMP-dependent protein kinase regulator activity; nucleoside kinase activity; nucleotide binding;

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