

## Recombinant Human AK5 Protein, GST-tagged

**Cat. No.** AK5-393H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human AK5 full-length ORF ( AAH36666, 1 a.a. - 562 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>      | 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. [provided by RefSeq, Jul 2008]  |
| <b>Molecular Mass</b>   | 87.56 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>AA Sequence</b>      | MNTNDAKEYMARREIPQLFESLLNGLMCSKPEDPVEYLESCLQKV KELGGCDKVKW<br>DTFVSQEKKTLPLNGGQSRRSFLRNVMPGNSNFPYRRYDRLPPIHQFSIESDTDLS<br>ETAELIEEYEVFDPTRPRPKIILVIGGPGSGKGTQSLKIAERYGFQYISVGELLRKKIHS<br>TSSNRKWSLIAKIITTGELAPQETTITEIKQKLMQIPDEEGIVIDGFPRDVAQALSFEDQI<br>CTPDLVVFLACANQRLKERLLKRAEQQGRPDNDVKATQRRMLMNFKQNAAPLVKYF<br>QEKGLIMTFDADRDEDEVFYDISMAVDNKLFPNKEAAAGSSDLDP SMILDTGEIIDTG<br>SDYEDQGDDQLNVFGEDTMGGFMEDLRKCKIIFIIGGPGSGKGTQCEKLVEKYGFT<br>HLSTGELLREELASESERSKLRDIMERGDLPVSGIVLELLKEAMVASLGDTRGFLIDG |

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YPREVKQGEEFGRRIGDPQLVICMDCSADTMNRLQSRSSLPVDDTTKTIKRLE  
 AYYRASIPVIAYYETKTQLHKINAEGTPEDVFLQLCTAIDSIF

**Applications**

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);  
 Antibody Production; Protein Array

**Notes**

Best use within three months from the date of receipt of this protein.

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## 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](#)

**MIM**

[608009](#)

**UniProt ID**

[Q9Y6K8](#)

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