

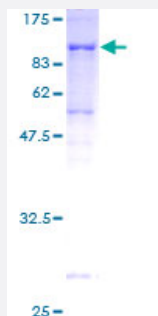
Full-Length

# AK5 (Human) Recombinant Protein (P01)

Catalog # H00026289-P01

Size 25 ug, 10 ug

## Applications



## Specification

### Product Description

Human AK5 full-length ORF ( AAH36666, 1 a.a. - 562 a.a.) recombinant protein with GST-tag at N-terminal.

### Sequence

MNTNDAKEYMARREIPQLFESLLNGLMCSKPEDPVEYLESCLQKVKELGCGDKVKWDTFVSQEKKTLPPLNGGQSRRSFLRNVMPGNSNFPYRRYDRLPPIHQFSIESDSDLSETAELIEEYEVDPTRPRPKIILVIGGPGSGKGTQSLKIAERYGFQYISVGELLRKKIHSTSSNRKWSLIAKIITGELAPQETTITEIKQKLMQIPDEEGVIDGFPRDVAQALSFEDQICTPDLVVFLACANQRLKERLLKRAEQQGRPDDNVKATQRRMLMNFQNAAPLVKYFQEKGLIMTFDADRDEDEVFYDISMAVDNKLFPNKEAAAGSSDLDPMSMILDTGEIIDTGSDYEDQGDDQLNVFGEDTMGGFMEDLRKCKIIFIGGPGSGKGTQCEKLV EKYGFTHLSTGELLREELASESERSKLIRDIMERGDLVPSGMVLELLKEAMVASLGDTRGFLIDGYPREVKKQGEFGRIGDPQLVICMDCSADTMNRLQSRSSLPVDDTTKTIKRLEAYRASIPVIAYYETKTQLHKINAEGTPEDVFLQLCTAIDSIF

### Host

Wheat Germ (in vitro)

### Theoretical MW (kDa)

87.56

### Interspecies Antigen Sequence

Mouse (91); Rat (90)

### Preparation Method

[in vitro wheat germ expression system](#)

### Purification

Glutathione Sepharose 4 Fast Flow

|                         |                                                                          |
|-------------------------|--------------------------------------------------------------------------|
| Quality Control Testing | 12.5% SDS-PAGE Stained with Coomassie Blue.                              |
| Storage Buffer          | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer. |
| Storage Instruction     | Store at -80°C. Aliquot to avoid repeated freezing and thawing.          |
| Note                    | Best use within three months from the date of receipt of this protein.   |

## Applications

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

## Gene Info — AK5

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Entrez GeneID       | <a href="#">26289</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| GeneBank Accession# | <a href="#">BC036666</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Protein Accession#  | <a href="#">AAH36666</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Gene Name           | AK5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Gene Alias          | AK6, MGC33326                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Gene Description    | adenylate kinase 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Omim ID             | <a href="#">608009</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Gene Ontology       | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Gene Summary        | 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] |
| Other Designations  | ATP-AMP transphosphorylase OTTHUMP00000011354 OTTHUMP00000011355 adenylate kinase 6                                                                                                                                                                                                                                                                                                                                                                                                              |

## Pathway

- [Metabolic pathways](#)
- [Purine metabolism](#)

## Disease

- [Tobacco Use Disorder](#)