

# Product datasheet for AR50088PU-S

### Adenylate kinase 5 / AK5 (1-562, His-tag) Human Protein

#### **Product data:**

| Product Type:                            | Recombinant Proteins  |
|--|---|
| Description:                             | Adenylate kinase 5 / AK5 (1-562, His-tag) human recombinant protein, 50 μg  |
| Species:                                 | Human   |
| Expression Host:                         | E. coli   |
| Expression cDNA Clone<br>or AA Sequence: | MGSSHHHHHH SSGLVPRGSH MGSHMNTNDA KEYMARREIP QLFESLLNGL MCSKPEDPVE<br>YLESCLQKVK ELGGCDKVKW DTFVSQEKKT LPPLNGGQSR RSFLRNVMPG NSNFPYRRYD<br>RLPPIHQFSI ESDTDLSETA ELIEEYEVFD PTRPRPKIIL VIGGPGSGKG TQSLKIAERY GFQYISVGEL<br>LRKKIHSTSS NRKWSLIAKI ITTGELAPQE TTITEIKQKL MQIPDEEGIV IDGFPRDVAQ ALSFEDQICT<br>PDLVVFLACA NQRLKERLLK RAEQQGRPDD NVKATQRRLM NFKQNAAPLV KYFQEKGLIM<br>TFDADRDEDE VFYDISMAVD NKLFPNKEAA AGSSDLDPSM ILDTGEIIDT GSDYEDQGDD<br>QLNVFGEDTM GGFMEDLRKC KIIFIIGGPG SGKGTQCEKL VEKYGFTHLS TGELLREELA SESERSKLIR<br>DIMERGDLVP SGIVLELLKE AMVASLGDTR GFLIDGYPRE VKQGEEFGRR IGDPQLVICM<br>DCSADTMTNR LLQRSRSSLP VDDTTKTIAK RLEAYYRASI PVIAYYETKT QLHKINAEGT PEDVFLQLCT<br>AIDSIF |
| Tag:                                     | His-tag   |
| Predicted MW:                            | 65.9 kDa  |
| Concentration:                           | lot specific  |
| Purity:                                  | >85% by SDS - PAGE  |
| Buffer:                                  | Presentation State: Purified<br>State: Liquid purified protein<br>Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 1 mM DTT   |
| Preparation:                             | Liquid purified protein   |
| Protein Description:                     | Recombinant human AK5 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.   |
| Storage:                                 | Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.<br>Avoid repeated freezing and thawing.  |
| Stability:                               | Shelf life: one year from despatch.   |
| RefSeq:                                  | <u>NP 036225</u>  |
| Locus ID:                                | 26289   |



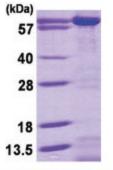
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|                  | Adenylate kinase 5 / AK5 (1-562, His-tag) Human Protein – AR50088PU-S   |
|------------------|---|
| UniProt ID:      | <u>Q9Y6K8</u>   |
| Cytogenetics:    | 1p31.1  |
| Synonyms:        | AK6   |
| Summary:         | This gene encodes a member of the adenylate kinase family, which is involved in regulating<br>the adenine nucleotide composition within a cell by catalyzing the reversible transfer of<br>phosphate groups among adenine nucleotides. This member is related to the UMP/CMP<br>kinase of several species. It is located in the cytosol and expressed exclusively in brain.<br>Alternatively spliced transcript variants encoding distinct isoforms have been identified for<br>this gene. [provided by RefSeq, Jul 2008] |
| Protein Families | : Druggable Genome  |
| Protein Pathway  | <b>/s:</b> Metabolic pathways, Purine metabolism  |

## Product images:



15% SDS-PAGE (3ug)

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