Recombinant Full Length Human AK2 Protein, C-Flag-tagged

Cat. No. AK2-302HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human AK2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	Adenylate kinases are involved in regulating the adenine nucleotide composition within a cell by catalyzing the reversible transfer of phosphate groups among adenine nucleotides. Three isozymes of adenylate kinase, namely 1, 2, and 3, have been identified in vertebrates; this gene encodes isozyme 2. Expression of these isozymes is tissue-specific and developmentally regulated. Isozyme 2 is localized in the mitochondrial intermembrane space and may play a role in apoptosis. Mutations in this gene are the cause of reticular dysgenesis. Alternate splicing results in multiple transcript variants. Pseudogenes of this gene are found on chromosomes 1 and 2.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	26.3 kDa
AA Sequence	MAPSVPAAEPEYPKGIRAVLLGPPGAGKGTQAPRLAENFCVCHLATGDMLRAMVAS GSELGKKLKATMDA GKLVSDEMVVELIEKNLETPLCKNGFLLDGFPRTVRQAEMLD DLMEKRKEKLDSVIEFSIPDSLLIRRIT GRLIHPKSGRSYHEEFNPPKEPMKDDITGEP LIRRSDDNEKALKIRLQAYHTQTTPLIEYYRKRGIHSAI DASQTPDVVFASILAAFSKATCKDLVMFITRTRPLEQKLISEEDLAANDILDYKDDDDK

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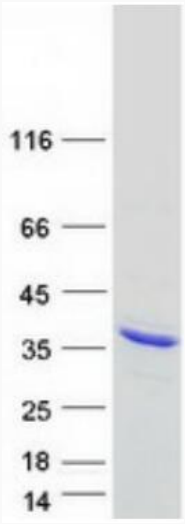
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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Metabolic pathways, Purine metabolism
Full Length	Full L.

GENE INFORMATION

Gene Name	AK2 adenylate kinase 2 [Homo sapiens (human)]
Official Symbol	AK2
Synonyms	ADK2
Gene ID	204
mRNA Refseq	NM_001625.4

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Protein Refseq	NP_001616.1
MIM	103020
UniProt ID	P54819



Coomassie blue staining of purified AK2 protein.

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