

Recombinant Human Adenylate Kinase 2, His-tagged

Cat. No. AK2-117H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human AK2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques, 28.6 kDa (259 aa).
Species	Human
Source	E.coli
Description	Adenylate kinase (AK; adenosine triphosphate-adenosine monophosphate [ATP-AMP] phospho-transferase, EC 2.7.4.3) is a ubiquitous monomeric enzyme involved energy metabolism of prokaryotic and eukaryotic cells. Three isozymes (AK1, AK2 and AK3) are characterized in vertebrates. Expression of these isozymes is tissue-specific and developmentally regulated. AK2 is localized in the mitochondrial intermembrane space and may play a role in apoptosis.
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MAPSVPAAP EYPKGIRAVL LGPPGAGKGT QAPRLAENFC VCHLATGDM L RAMVASGSEL GKCLKATMDA GKLVSDEM VV ELIEKNLETP LCKNGFLLDG FPRTVRQAEM LDDLMEKRKE KLDSVIEFSI PDSLLIRRIT GRLIHPKSGR SYHEEFNPPK EPMKDDITGE PLIRRSDDNE KALKIRLQAY HTQTTPLEIY YRKRGIHSAI DASQTPDVVF ASILAAFSKA TCKDLVMFI
Formulation	Liquid. In 20 mM Tris-HCl buffer (pH 7.5) containing 5 mM DTT, 20% glycerol
Purity	> 95% by SDS - PAGE

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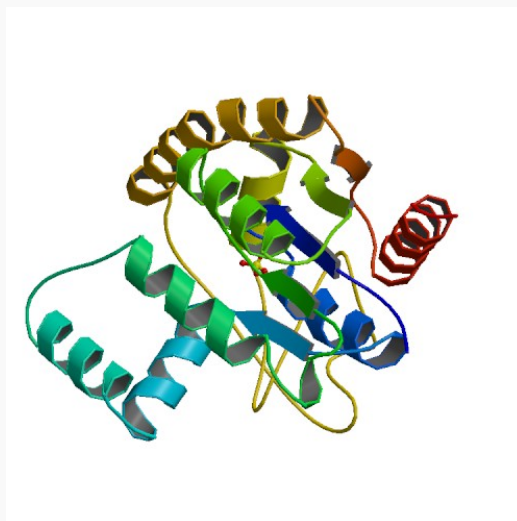
Concentration	1 mg/ml (determined by Bradford assay)
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
GENE INFORMATION	
Gene Name	AK2 adenylate kinase 2 [Homo sapiens]
Synonyms	ADK2; EC 2.7.4.3; AK 2; OTTHUMP00000004287; OTTHUMP00000004288; ATP-AMP transphosphorylase; ATP-AMP transphosphorylase 2; adenylate kinase 2; adenylate kinase isoenzyme 2, mitochondrial; adenylate kinase, mitochondrial
Gene ID	204
mRNA Refseq	NM_001625
Protein Refseq	NP_001616
MIM	103020
UniProt ID	P54819
Chromosome Location	1p34
Pathway	Purine metabolism; Nucleotide metabolism
Function	ATP binding ; adenylate kinase activity; nucleoside kinase activity; nucleotide binding ; transferase activity

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PDBrendering based
on 1ak2. Available
structures: 1ak2, 2ak2, 2c



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