

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 SGLVPRGSH MAPSVPAEY EYPKIRAVL LGPPGAGKGT QAPRLAENFC VCHLATGDML RAMVASGSEL GKCLKATMDA GKLVSDEMVV ELIEKNLETP LCKNGFLLDG FPRTVRQAEM LDDLMEKRKE KLDSVIEFSI PDSLLIRRIT GRLIHPKSGR SYHEEFNPPK EPMKDDITGE PLIRRSDDNE KALKIRLQAY HTQTTPLIEY 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

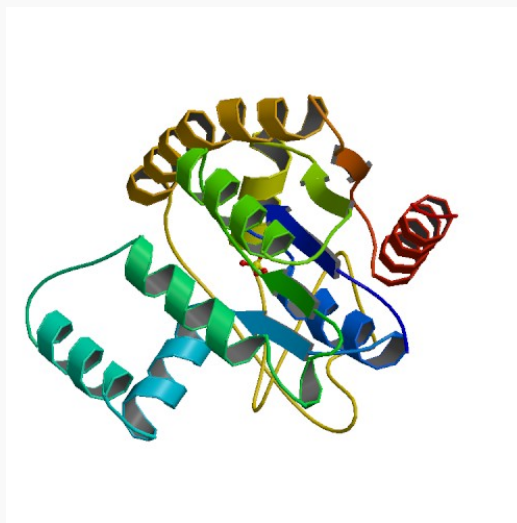
ATP binding ; adenylate kinase activity; nucleoside kinase activity; nucleotide binding ; transferase activity

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



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