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 MAPSVPAAEP EYPKGIRAVL LGPPGAGKGT QAPRLAENFC VCHLATGDML RAMVASGSEL GKKLKATMDA 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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

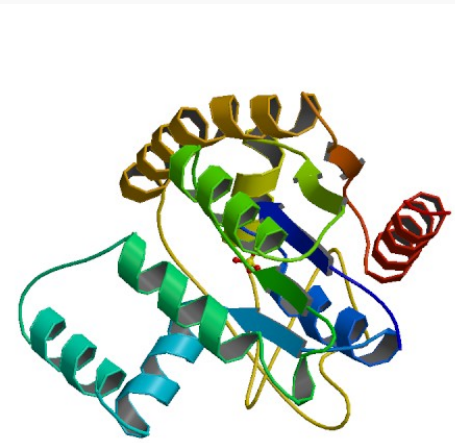
Concentration	1 mg/ml (determined by Bradford assay)
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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



Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA