

# AK2, Human Recombinant

<b>CATALOG #:</b>	6386-100	100 µg
<b>ALTERNATE NAMES:</b>	Adenylate kinase 2, ADK2	
<b>SOURCE:</b>	<i>E.coli</i>	
<b>PURITY:</b>	≥ 95% by SDS-PAGE	
<b>MOL. WEIGHT:</b>	28.6 kDa (259 aa, 1-239 aa + His-tag), NP_001616.1	
<b>FORMULATION:</b>	0.2 µm filtered solution in PBS, pH 7.4 containing 2 mM DTT and 20% Glycerol.	
<b>ENDOTOXIN LEVEL:</b>	< 1.0 EU per 1 µg of protein (determined by LAL method)	
<b>FORM:</b>	Liquid	

**STORAGE CONDITIONS:**

The protein can be stored at 4 °C for 1-2 weeks. For long term storage, aliquot and store at -20 °C or -70 °C. Avoid repeated freezing and thawing cycles.

**DESCRIPTION:**

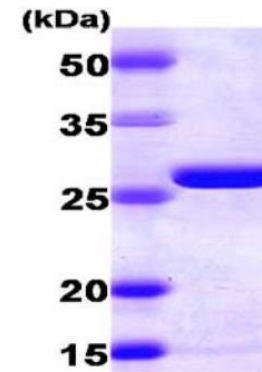
Adenylate kinase (AK; adenosine triphosphate-adenosine monophosphate [ATP-AMP] phosphotransferase) is a ubiquitous monomeric enzyme involved energy metabolism of prokaryotic and eukaryotic cells. Three isozymes (AK1, AK2 and AK3) are characterized in vertebrates. Expression of these isozymes is tissue-specific and developmentally regulated. AK2 is localized in the mitochondrial intermembrane space and may play a role in apoptosis.

**AMINO ACID SEQUENCE:**

MGSSHHHHHH SSGLVPRGSH MAPSVAAEP EYPKGIRAVL LGPPGAGKGT  
QAPRLAENFC VCHLATGDML RAMVASGSEL GKCLKATMDA GKLVSDVMV  
ELIEKNLETP LCKNGFLLDG FPRTVRQAEM LDDLMEKRKE KLDSVIEFSI PDSLLIRIT  
GRLIHPKSGR SYHEEFNPPK EPMKDDITGE PLIRRSDDNE KALKIRLQAY HTQTTPLIEY  
YRKRGIHSAI DASQTPDVVF ASILAAFSKA TCKDLVMFI

**BIOLOGICAL ACTIVITY:**

Specific activity: > 25 unit/mg. One unit will convert 2.0 µmoles of ADP to ATP + AMP per minute at pH 7.5 at 37 °C.



15% SDS-PAGE (3µg)

Human Recombinant, Adenylate Kinase 2 protein

**RELATED PRODUCTS:**

- Human Recombinant AK1 (Cat. No. 6385-100)
- Adenylate Kinase (AK) Activity Assay Kit (Cat. No. K350)

**FOR RESEARCH USE ONLY! Not to be used in humans.**