

Active Recombinant Mouse Adk Protein, His-tagged, Bioactivity Validated

Cat. No. Adk-245H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Adk(1-361aa) fused with His tag at N-terminal was expressed in E. coli. Bioactivity Validated.
Species	Mouse
Source	E.coli
ProteinLength	1-361aa
Description	Adk, also known as Adenosine kinase, is an abundant enzyme in mammalian tissues that catalyzes the transfer of the gamma-phosphate from ATP to adenosine, thereby serving as a regulator of concentrations of both extracellular adenosine and intracellular adenine nucleotides. Adenosine kinase has widespread effects on the cardiovascular, nervous, respiratory, and immune systems and inhibitors of the enzyme could play an important pharmacological role in increasing intravascular adenosine concentrations and acting as anti-inflammatory agents.
Form	Liquid. In 20mM Tris-Hcl buffer (pH8.0) containing 20% glycerol, 50mM NaCl, 1mM EDTA
Bio-activity	Specific activity is > 100 pmol/min/ and is defined as the amount of enzyme that convert 1.0 pmole of adenosine to AMP per minute at pH 7.5 at 37C in a couple system with PK and LDH.

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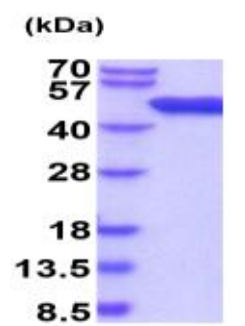
Molecular Mass	42.5 kDa (384aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMAAADEP KPKKLKVEAP QALSENVLFG MGNPLLDISA VVDKDFLDKY SLKPNDQILA EDKHKELFDE LVKKFKVEYH AGGSTQNSMK VAQWLIQEPH KAATFFGCIG IDKFGEILKR KAADAHVDAH YYEQNEQPTG TCAACITGGN RSLVANLAAA NCYKKEKHLN LERNWVLVEK ARVYYIAGFF LTVSPESVLK VARYAAENNR VFTLNLSAPF ISQFFKEALM DVMPYVDILF GNETEAATFA REQGFETKDI KEIAKKAQAL PKVNSKRQRT VIFTQGRDDT IVAAENDVTA FVLDQDNQEE IIDTNGAGDA FVGGFLSQLV SDKPLTECIR AGHYAASVII RRTGCTFPEK PDFH
Purity	> 95% by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	1mg/ml (determined by Absorbance at 280nm)
GENE INFORMATION	
Gene Name	Adk adenosine kinase [Mus musculus]
Official Symbol	Adk
Synonyms	ADK; adenosine kinase; adenosine 5-phosphotransferase; Ak; AI255373; AI987814; 2310026J05Rik; 5033405D03Rik;

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Gene ID	11534
mRNA Refseq	NM_134079
Protein Refseq	NP_598840
UniProt ID	P55264



15% SDS-PAGE (3ug)

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