

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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 45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	42.5 kDa (384aa) confirmed by MALDI-TOF
AA Sequence	<p>MGSSHHHHHH SSGLVPRGSH MGSMAAADEP KPKKLVKVEAP 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 FPVLDQNQEE IIDTNGAGDA FVGGFLSQLV SDKPLTECIR AGHYAASVII RRTGCTFPEK PDFH</p>
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 [<i>Mus musculus</i>]
Official Symbol	Adk
Synonyms	ADK; adenosine kinase; adenosine 5-phosphotransferase; Ak; AI255373; AI987814; 2310026J05Rik; 5033405D03Rik;

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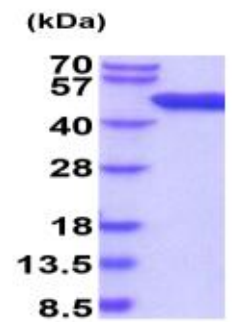
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Gene ID 11534

mRNA Refseq NM_134079

Protein Refseq NP_598840

UniProt ID P55264



15% SDS-PAGE (3ug)

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