

Recombinant Human Adenosine Kinase, His-tagged

Cat. No. ADK-2481H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human Adenosine kinase, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW = 40.5 kDa (362aa).
Species	Human
Source	E.coli
Description	Adenosine kinase, also known as ADK 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 (pH 8.0) containing 1mM DTT, 20% glycerol, 1mM EDTA, 50mM NaCl.
Purity	> 95% by SDS – PAGE.
Concentration	0.5 mg/ml (determined by Bradford assay).
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MRENILFGMG NPLLDISAVV DKDFLDKYSL KPNDQILAED KHKELFDELV KKFKVEYHAG GSTQNSIKVA QWMIQQPHKA

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ATFFGCIGID KFGEILKRKA AEAHVDAHYY EQNEQPTGTC AACITGDNRS
 LIANLAAANC YKKEKHLdle KNWMLVEKAR VCYIAGFFLT VSPESVLKVA
 HHAENNRIF TLNLSAPFIS QFYKESLMKV MPYVDILFGN ETEAATFARE
 QGFETKDIKE IAKKTQALPK MNSKRQRIVI FTQGRDDTIM ATESEVTAFa
 VLDQDQKEII DTNGAGDAFV GGFLSQLVSD KPLTECIRAG HYAASIIIRR
 TGCTFPEKPD FH.

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

ADK adenosine kinase [[Homo sapiens](#)]

Synonyms

adenosine kinase; AK; ADK; adenosine 5"-phosphotransferase; Adenosine 5"-phosphotransferase; EC 2.7.1.20

Gene ID

[132](#)

mRNA Refseq

[NM_001123](#)

Protein Refseq

[NP_001114](#)

MIM

[102750](#)

UniProt ID

[P55263](#)

Chromosome Location

10q22; 10q11-q24

Pathway

Metabolic pathways; Purine metabolism; Metabolism of nucleotides

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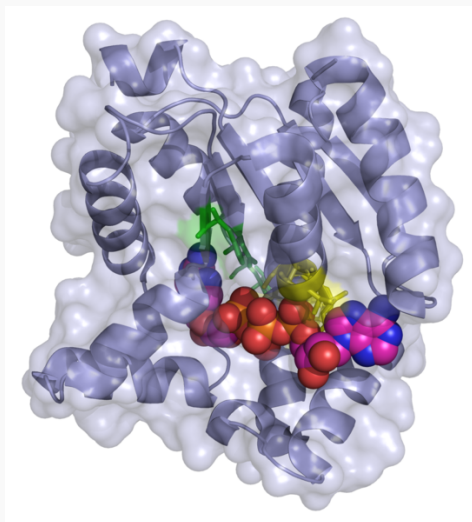
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Function

ATP binding; adenosine kinase activity; kinase activity; metal ion binding; nucleotide binding; transferase activity

Adenylate kinase 1



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