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## Product Data Sheet

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Product Name: ADK Human  
 Cat. No.: GP22408  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Adenosine 5'-phosphotransferase; EC 2.7.1.20; AK; ADK.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MRENILFGMG NPLLDISAVV DKDFLDKYSL KPNDQILAED KHKELFDELV KFKVEYHAG GSTQNSIKVA QWMIQQPHKA ATFFGCIGID KFGEILKRKA AEAHVDAHYY EQNEQPTGTC AACITGDNRS LIANLAAANC YKKEKHLdle KNWMLVEKAR VCYIAGFFLT VPESVLKVA HHASENNRIF TLNLSAPFIS QFYKESLMKV MPYVDILFGN ETEAATFARE QGFETKDIKE IAKKTQALPK MNSKRQRIVI FTQGRDDTIM ATESEVTAFa VLDQDQKEII DTNGAGDAFV GGFLSQLVSD KPLTECIRAG HYAASIIIRR TGCTFPEKPD FH.		
Formulation	ADK protein solution (0.5mg/ml) containing 20mM Tris-HCl pH-8, 1mM DTT, 1mM EDTA, 50mM NaCl & 20% glycerol.		

### Introduction

Adenosine Kinase is an abundant enzyme in mammalian tissues which catalyzes the transfer of the gamma-phosphate from ATP to adenosine, thus is as a regulator of concentrations of both extracellular adenosine and intracellular adenine nucleotides. Adenosine has extensive effects on the cardiovascular, nervous, respiratory, and immune systems and inhibitors of the enzyme take a crucial pharmacological part in growing intravascular adenosine concentrations and acting as anti-inflammatory agents.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Adenosine Kinase Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 362 amino acids (22-362a.a.) and having a molecular mass of 40.5 kDa. Adenosine Kinase protein is fused to a 21 amino acid His tag at N-terminus and is purified by standard chromatography.

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