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**Product Data Sheet**


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Product Name: ADK Human, Active  
 Cat. No.: GP22409  
 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; Adenosine Kinase; Adenosine 5-Phosphotransferase; Testicular Tissue Protein Li 14; EC 2.7.1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MRENILFGMG NPLLDISAVV DKDFLDKYSL KPNDQILAED KHKELFDELV KFKVEYHAG GSTQNSIKVA QWMIQQPHKA ATFFGCIGID KFGEILKRKA AEAHVDAHYY EQNEQPTGTC AACITGDNRS LIANLAAANC YKKEKHLDL EKNWMLVEKARVCYIAGFFLT VSPESVLKVA HHASENNRIF TLNLSAPFIS QFYKESLMKV MPYVDILFGN ETEAATFARE QGFETKDIKE IAKKTQALPK MNSKRQRIVI FTQGRDDTIM ATESEVTAF VLDQDQKEII DTNGAGDAFV GGFLSQLVSD KPLTECIRAG HYAASIIIRR TGCTFPEKPDFH.		
Formulation	The ADK protein solution (0.5mg/ml) contains 20% glycerol, 20mM Tris-HCl buffer (pH8.0), 1mM DTT, 1mM EDTA& 50mM NaCl.		

**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.

**Biological Activity**

Specific activity is > 30 pmol/min/ug 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

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

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with PK and LDH.

### 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

ADK produced in E.Coli is a single, non-glycosylated polypeptide chain containing 362 amino acids (22-362a.a.) and having a molecular mass of 40.5kDa. ADK is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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