

## ADK Human

**Description:** Adenosine Kinase Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 362 amino acids (22-362 a.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.

Catalog #: PKPS-374

For research use only.

**Synonyms:** Adenosine 5"-phosphotransferase, EC 2.7.1.20, AK, ADK.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MRENILFGMG NPLDISAVV  
DKDFLDKYSL KPNDQILAED KHKELFDELV KKFKVEYHAG GSTQNSIKVAQWMIQQPHKA  
ATFFGCIGID KFGELKRKA AEAHVDAHYY EQNEQPTGTC AACITGDNRS LIANLAAANC  
YKKEKHLDEL KNWMLVEKARVCYIAGFFLT VSPESVLKVA HHAENNRIF TLNLSAPFIS  
QFYKESLMKV MPYV

**Purity:** Greater than 95% as determined by SDS-PAGE.

**Formulation:**

ADK Human solution containing 20mM Tris HCL pH-8, 1mM DTT, 1mM EDTA, 50mM NaCl & 20% glycerol.

**Stability:**

Adenosine Kinase Human although stable at 4°C for 1 week, should be stored desiccated below -18°C. Please prevent freeze thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. They may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**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.

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