

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 GSTQNSIKVAQWMIQPHKA
ATFFGCIGID KFGEILKRKA 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:

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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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