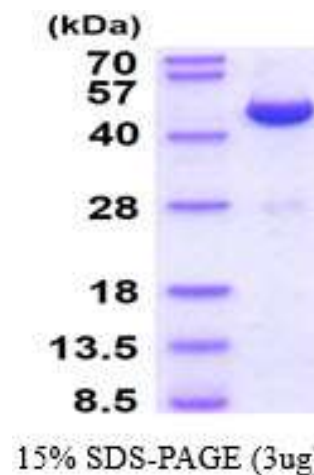


Adenosine kinase, Human Recombinant

CATALOG NO:	P1234-10 P1234-50	10 µg 50 µg
ALTERNATE NAMES:	ADK, AK	
CONCENTRATION:	0.5 mg/ml (determined by Bradford assay)	
SOURCE:	<i>E.coli</i> (22-362 aa)	
PURITY:	> 95% by SDS-PAGE	
MOL. WEIGHT:	This protein is fused with 6x His tag at N terminus and the protein has a calculated MW of 40.5 kDa (362 aa)	
FORM:	Liquid	
FORMULATION:	In 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 20% glycerol, 1 mM EDTA, 50 mM NaCl	
STORAGE CONDITIONS:	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.	
SEQUENCE:	<p>MGSSHHHHHH SSGLVPRGSH MRENILFGMG NPLLDISAVV DKDFLDKYSL KPNDQILAED KHKELFDELV KFKVEYHAG GSTQNSIKVA QWMIQQPHKA ATFFGCIGID KFGELKRKA AEAHVDAHYY EQNEQPTGTC AACITGDNRS LIANLAAANC YKKEKHLDLK KNWMLVEKAR VCYIAGFFLT VSPESVLKVA HHAENNRIF TLNLSAPFIS QFYKESLMKV MPYVDILFGN ETEAATFARE QGFETKDIKE IAKKTQALPK MNSKRQRIVI FTQGRDDTIM ATESEVTAFV VLDQDQKEII DTNGAGDAFV GGFLSQLVSD KPLTECIRAG HYAASIIIRR TGCTFPEKPD FH</p>	
DESCRIPTION:	<p>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 adenosine 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. 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.</p>	
SPECIFIC ACTIVITY:	Specific activity is > 30 pmol/min/ug and is defined as the amount of enzyme that converts 1.0 pmole of adenosine to AMP per minute at pH 7.5 at 37C in a couple system with PK and LDH.	



Human recombinant Adenosine Kinase

RELATED PRODUCT:

- AMPK (Human) ELISA Kit (**Cat. No. E4280**)
- QuickDetect™ Pyruvate Kinase (Human) ELISA Kit (**Cat. No. E4448**)
- Adenylate Kinase (AK) Activity Assay Kit (Colorimetric/Fluorometric) (**Cat. No. K350**)
- Human Recombinant AK2 (**Cat. No. 6386**)

FOR RESEARCH USE ONLY! Not to be used on humans.