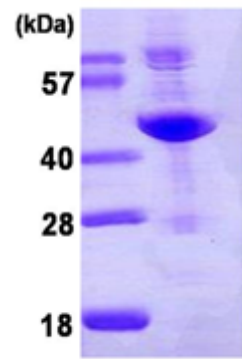


**AR39056PU-N****Human Adenosine deaminase (1-363, His-tag) - Purified**

<b>Alternate names:</b>	ADA, Adenosine aminohydrolase
<b>Quantity:</b>	50 µg
<b>Concentration:</b>	0.5 mg/ml (determined by Bradford assay)
<b>Background:</b>	ADA, also known as adenosine deaminase, catalyzes the hydrolytic deamination of adenosine and 2-deoxyadenosine. This protein plays an important role in purine metabolism and in adenosine homeostasis. ADA acts as a positive regulator of T-cell coactivation, by binding DPP4. Its interaction with DPP4 regulates lymphocyte-epithelial cell adhesion.
<b>Uniprot ID:</b>	<a href="#">P00813</a>
<b>NCBI:</b>	<a href="#">NP_000013</a>
<b>GeneID:</b>	<a href="#">100</a>
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Format:</b>	<b>State:</b> Liquid purified protein <b>Purity:</b> >85% <b>Buffer System:</b> 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 1mM DTT
<b>Description:</b>	Recombinant human ADA protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography. <b>AA Sequence:</b> <u>MGSSHHHHHH SSGLVPRGSH</u> MAQTPAFDKP KVELHVHLDG SIKPETILYY GRRRGIALPA NTAEGLLNVI GMDKPLTLPD FLAKFDYYMP AIAGCREAIK RIAYEFVEMK AKEGVVYVEV RYSPELLANS KVEPIPNQA EGDLPDEVV ALVGQGLQEG ERDFGVKARS ILCCMRHQPN WSPKVVELCK KYQQQTVVAI DLAGDETIPG SLLPQGHVQA YQEAVKSGIH RTVHAGEVGS AEVVKEAVDI LKTERLGHGY HTLEDQALYN RLRQENMHFE ICPWSSYLTG AWKPDTEHAV IRLKNQANY SLNTDDPLIF KSTLTDYQM TKRDMGFTEE EFKRLNINAA KSSFLPEDEK RELLDLYKA YGMPPSASAG QNL <b>Specific Activity:</b> Specific activity is >40 units/mg, and is defined as the amount of enzyme that convert 1.0 umol of adenosine to inosine per minute at pH 7.5 at 25°C. <b>Molecular weight:</b> 42.9 kDa (383aa), confirmed by MALDI-TOF
<b>Storage:</b>	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
<b>General Readings:</b>	Gines S., et al. (2002) Biochem. 361:203-209.
<b>Protocols:</b>	<b>Activity Assay</b> 1. Prepare a 1.5 ml reaction mix: the final concentrations are 53.3mM potassium phosphate, 0.045mM adenosine, 0.003% (w/v) bovine serum. 2. Add recombinant ADA protein with various concentrations (0.1ug, 0.2) in assay buffer. 3. Mix by inversion and record A260nm for approximately 5 minutes.

**Pictures:**

Recombinant human ADA, 1-363aa, His-tagged



15% SDS-PAGE (3ug)