

Product datasheet for AR39056PU-L

Adenosine deaminase (1-363, His-tag) Human Protein

Product data:

Product Type: Recombinant Proteins Description: Adenosine deaminase (1-363, His-tag) human recombinant protein, 0.25 mg Species: Human **Expression Host:** E. coli MGSSHHHHHH SSGLVPRGSH MAQTPAFDKP KVELHVHLDG SIKPETILYY GRRRGIALPA **Expression cDNA Clone** NTAEGLLNVI GMDKPLTLPD FLAKFDYYMP AIAGCREAIK RIAYEFVEMK AKEGVVYVEV RYSPHLLANS or AA Sequence: KVEPIPWNQA EGDLTPDEVV ALVGQGLQEG ERDFGVKARS ILCCMRHQPN WSPKVVELCK KYQQQTVVAI DLAGDETIPG SSLLPGHVQA YQEAVKSGIH RTVHAGEVGS AEVVKEAVDI LKTERLGHGY HTLEDQALYN RLRQENMHFE ICPWSSYLTG AWKPDTEHAV IRLKNDQANY SLNTDDPLIF KSTLDTDYQM TKRDMGFTEE EFKRLNINAA KSSFLPEDEK RELLDLLYKA YGMPPSASAG QNL Tag: His-tag Predicted MW: 42.9 kDa **Concentration:** lot specific >90% Purity: **Buffer:** Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 1 mM DTT **Bioactivity:** Specific: 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. Liquid purified protein **Preparation: Applications:** Protocol: Activity Assay 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. **Protein Description:** Recombinant human ADA protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.



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	Adenosine deaminase (1-363, His-tag) Human Protein – AR39056PU-L
Storage:	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.
Stability:	Shelf life: one year from despatch.
RefSeq:	<u>NP 000013</u>
Locus ID:	100
UniProt ID:	<u>P00813</u>
Cytogenetics:	20q13.12
Synonyms:	Adenosine aminohydrolase, ADA
Summary:	This gene encodes an enzyme that catalyzes the hydrolysis of adenosine to inosine in the purine catabolic pathway. Various mutations have been described for this gene and have been linked to human diseases related to impaired immune function such as severe combined immunodeficiency disease (SCID) which is the result of a deficiency in the ADA enzyme. In ADA-deficient individuals there is a marked depletion of T, B, and NK lymphocytes, and consequently, a lack of both humoral and cellular immunity. Conversely, elevated levels of this enzyme are associated with congenital hemolytic anemia. [provided by RefSeq, Sep 2019]
Protein Families:	Protocol: Activity Assay 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.
Protein Pathway	s: Metabolic pathways, Primary immunodeficiency, Purine metabolism

Product images:



15% SDS-PAGE (3ug)

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