

## Human Recombinant ADA

<b>CATALOG #:</b>	6393-50	50 µg
<b>ALTERNATE NAMES:</b>	Adenosine deaminase, Adenosine aminohydrolase, ADA1.	
<b>SOURCE:</b>	E.Coli	
<b>PURITY:</b>	> 85% by SDS - PAGE	
<b>MOL. WEIGHT:</b>	42.9 kDa (383 aa, 1-363 aa + NT His Tag)	
<b>FORMULATION:</b>	0.5 mg/ml solution in 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT and 20% glycerol.	

### STORAGE CONDITIONS:

Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

### DESCRIPTION:

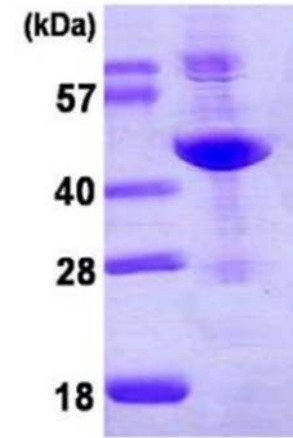
ADA, also known as adenosine deaminase, catalyzes the hydrolytic deamination of adenosine and 2-deoxyadenosine. This protein plays an important role in purine metabolism and in adenosine homeostasis. ADA acts as a positive regulator of T-cell coactivation, by binding DPP4. Its interaction with DPP4 regulates lymphocyte epithelial cell adhesion.

### AMINO ACID SEQUENCE:

MGSSHHHHHH SGLVPRGSH MAQTAFDKP KVELHVHLDG SIKPETILYY GRRRGIALPA  
NTAEGLLNVI GMDKPLTPD FLAKFDYYMP AIAGCREAIK RIAYEFVEMK AKEGVVYVEV  
RYSPELLANS KVEPIPWNQA EGDLPDEVV ALVGQGLQEG ERDFGVKARS  
ILCCMRHQPN WSPKVVELCK KYQQQTVVAI DLAGDETIPG SLLLPGHVQA YQEA VKSGIH  
RTVHAGEVGS AEVVKEAVDI LKTERLGHGY HTLEDQALYN RLRQENMHFE ICPWSSYLTG  
AWKPDTEHAV IRLKNDQANY SLNTDDPLIF KSTLDDTYQM TKRDMGFTEE EFKRLNINAA  
KSSFLPEDEK RELLDLLYKA YGMPPSASAG QNL

### BIOLOGICAL ACTIVITY:

Specific activity: approximately >25 units/mg. Enzymatic activity was confirmed by measuring the amount of enzyme that deaminates 1.0 µmol of adenosine to inosine per minute at pH 7.5 at 25°C



15% SDS-PAGE (3µg)

Human Recombinant ADA

### RELATED PRODUCTS:

- Dipeptidylpeptidase IV, human recombinant (Cat. No. 4710-10, -50, -1000)
- Tetrahydrouridine (Cat. No. 1671-10, -25)
- Zebularine (Cat. No. 2225-1, -5)

**FOR RESEARCH USE ONLY! Not to be used in humans.**