

## Recombinant Human ADA Protein (Lys11-Val280)

**Cat. No.** ADA-0689H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human ADA Protein (Lys11-Val280) without tag was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	Lys11-Val280
<b>Description</b>	Adenosine Deaminase (ADA, adenosine aminohydrolase) is one of the key enzymes of purine nucleotide catabolism. It catalyses the hydrolytic deamination of adenosine and deoxy-adenosine to inosine and deoxyinosine (1, 2). ADA is expressed in virtually all tissues and is expressed at high levels in T-lymphocytes. Adenosine Deaminase deficiency can cause a form of SCID (severe combined immunodeficiency) and lymphopenia in both B- and T-cell lineages (3, 4). ADA can be used as a sensitive diagnostic marker for tuberculous pleuritis (5). Although it is primarily a cytosolic enzyme, ADA is known to be a positive regulator of T-cell co-activation due to its binding to CD26 at the cell surface. The interaction of ADA with CD26 regulates lymphocyte-epithelial cell adhesion (6)
<b>Predicted N Terminal</b>	Inconclusive result, Met predicted. Protein identity confirmed by MS analysis of tryptic fragments.
<b>Molecular Mass</b>	42 kDa

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**Purity** >95%

## GENE INFORMATION

**Gene Name** ADA adenosine deaminase [ Homo sapiens (human) ]

**Official Symbol** ADA

**Synonyms** ADA; adenosine deaminase; ADA1; adenosine deaminase; adenosine aminohydrolase; EC 3.5.4.4

**Gene ID** 100

**mRNA Refseq** NM\_000022

**Protein Refseq** NP\_000013

**MIM** 608958

**UniProt ID** P00813

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