

## Active Recombinant Human ADA protein, His-tagged

Cat. No. ADA-1112H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human ADA(Met1-Leu363) fused with His tag at C-terminal was expressed in Insect cells.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>ProteinLength</b>	1-363 a.a.
<b>Description</b>	<p>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. 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. ADA can be used as a sensitive diagnostic marker for tuberculous pleuritis. 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.</p>
<b>Predicted N Terminal</b>	Met
<b>Form</b>	Supplied as a 0.2 µm filtered solution in Tris, NaCl and Glycerol.
<b>Bio-activity</b>	>44,000 pmol/min/µg

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<b>Molecular Mass</b>	Predicted Molecular Mass: 42 kDa;SDS-PAGE: 40-42 kDa, reducing conditions.
<b>Endotoxin</b>	<1.0 EU per 1 µg of the protein by the LAL method.
<b>Purity</b>	>95%, by SDS-PAGE under reducing conditions
<b>Storage</b>	Avoid repeated freeze-thaw cycles.3 months from date of receipt, -70 centigrade as supplied.1 month, -70 centigrade under sterile conditions after opening.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">ADA adenosine deaminase [ Homo sapiens ]</a>
<b>Official Symbol</b>	<a href="#">ADA</a>
<b>Synonyms</b>	ADA; adenosine deaminase; adenosine aminohydrolase;
<b>Gene ID</b>	<a href="#">100</a>
<b>mRNA Refseq</b>	<a href="#">NM_000022</a>
<b>Protein Refseq</b>	<a href="#">NP_000013</a>
<b>MIM</b>	<a href="#">608958</a>
<b>UniProt ID</b>	<a href="#">P00813</a>
<b>Chromosome Location</b>	20q13.12
<b>Pathway</b>	C-MYB transcription factor network, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem;

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Metabolism of nucleotides, organism-specific biosystem; Primary immunodeficiency, organism-specific biosystem; Primary immunodeficiency, conserved biosystem; Purine metabolism, organism-specific biosystem;

**Function**

adenosine deaminase activity; adenosine deaminase activity; hydrolase activity; metal ion binding; protein binding; purine nucleoside binding; zinc ion binding; zinc ion binding;

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