Recombinant Human ADA Protein (Lys11-Val280)

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

SPECIFICATION

Product Overview	Recombinant Human ADA Protein (Lys11-Val280) without tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Lys11-Val280
Description	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)
Predicted N Terminal	Inconclusive result, Met predicted. Protein identity confirmed by MS analysis of tryptic fragments.
Molecular Mass	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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