

## Recombinant Human AICDA, His-tagged

**Cat. No.** AICDA-9502H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human AICDA protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-198a.a.
<b>Description</b>	This gene encodes a RNA-editing deaminase that is a member of the cytidine deaminase family. The protein is involved in somatic hypermutation, gene conversion, and class-switch recombination of immunoglobulin genes. Defects in this gene are the cause of autosomal recessive hyper-IgM immunodeficiency syndrome type 2 (HIGM2).
<b>Storage</b>	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
<b>Storage Buffer</b>	1M PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH8. ) added with 300mM Imidazole and 0.7% Sarcosyl, 15%glycerol.

### GENE INFORMATION

**Gene Name**                    [AICDA activation-induced cytidine deaminase \[ Homo sapiens \]](#)

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<b>Official Symbol</b>	AICDA
<b>Synonyms</b>	AICDA; activation-induced cytidine deaminase; AID; ARP2; CDA2; HIGM2; cytidine aminohydrolase; integrated into Burkitts lymphoma cell line Ramos;
<b>Gene ID</b>	<a href="#">57379</a>
<b>mRNA Refseq</b>	<a href="#">NM_020661</a>
<b>Protein Refseq</b>	<a href="#">NP_065712</a>
<b>MIM</b>	<a href="#">605257</a>
<b>UniProt ID</b>	<a href="#">Q9GZX7</a>
<b>Chromosome Location</b>	12p13
<b>Pathway</b>	IL4-mediated signaling events, organism-specific biosystem; Intestinal immune network for IgA production, organism-specific biosystem; Intestinal immune network for IgA production, conserved biosystem; Primary immunodeficiency, organism-specific biosystem; Primary immunodeficiency, conserved biosystem; salvage pathways of pyrimidine deoxyribonucleotides, organism-specific biosystem; salvage pathways of pyrimidine ribonucleotides, organism-specific biosystem;
<b>Function</b>	cytidine deaminase activity; cytidine deaminase activity; hydrolase activity; hydrolase activity, acting on carbon-nitrogen (but not peptide) bonds, in cyclic amidines; metal ion binding; protein binding; zinc ion binding;

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