

## Recombinant Human AICDA protein

**Cat. No.** AICDA-1565H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Codon optimized AICDA gene to enhance the expression in E. coli. Amino Acid sequence remains the same as original gene. The protein is purified from E. coli and is biochemically active.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	AID is the activation-induced cytidine deaminase. This small protein is required for somatic hypermutation during immunoglobulin development. It has been speculated that AID may be involved in deamination of cytosine residues in immunoglobulin gene. Its precise biochemical activity in somatic hypermutation, however, remains unknown.
<b>Form</b>	50 mM TrisHCl (pH7.5), 800 mM NaCl, and 10% glycerol.
<b>Molecular Mass</b>	24 kDa
<b>AA Sequence</b>	MDSLLMNRKFLYQFKNVRWAKGRRETYLCYVVKRRDSATSFSLDFGYLRNKNGC HVELLFLRYISDWLDLPGRCYRVTWFTSWSPCYDCARHVADFLRGPNLSLRIFTA RLYFCEDRKAPEPEGLRRLHRAGVQIAIMTFKDYFYCWNTFVENHERTFKAWEGLHE NSVRLSRQLRRILLPLYEVDDLRFRTLGL
<b>Storage</b>	Stable for 2 years at -70 centigrade from date of shipment. Please aliquot to avoid repeated freezing and thawing.

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## GENE INFORMATION

**Gene Name** AICDA activation-induced cytidine deaminase [ Homo sapiens ]

**Official Symbol** AICDA

**Synonyms** AICDA; activation-induced cytidine deaminase; AID; ARP2; CDA2; HIGM2; cytidine aminohydrolase; integrated into Burkitts lymphoma cell line Ramos;

**Gene ID** 57379

**mRNA Refseq** NM\_020661

**Protein Refseq** NP\_065712

**MIM** 605257

**UniProt ID** Q9GZX7

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