

# Recombinant human AICDA protein

Catalog Number: ATGP1895

## PRODUCT INFORMATION

---

### Expression system

E.coli

### Domain

1-198aa

### UniProt No.

Q9GZX7

### NCBI Accession No.

NP\_065712.1

### Alternative Names

Activation-induced cytidine deaminase, AID, ARP2, CDA2, HIGM2

## PRODUCT SPECIFICATION

---

### Molecular Weight

26.1 kDa (218aa)

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

### Purity

> 85% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE, Denatured

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

---

### Description

AICDA, also known as AID, is involved in somatic hypermutation, gene conversion, and class-switch recombination in B-lymphocytes. This protein is required for several crucial steps of B-cell terminal differentiation necessary for efficient antibody responses. It may also play a role in the epigenetic regulation of gene expression by participating in DNA demethylation. Recombinant human AICDA protein, fused to His-tag at N-terminus, was expressed in E. coli.

# Recombinant human AICDA protein

Catalog Number: ATGP1895

## Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH> MDSLLMNRK FLYQFKNVRW AKGRRETYLC YVVKRRDSAT SFSLDFGYLR  
NKNKGCHVELL FLRYISDWDL DPGRCYRVTW FTSWSPCYDC ARHVADFLRG NPNLSLRIFT ARLYFCEDRK AEPEGLRRLH  
RAGVQIAIMT FKDYFYCWNT FVENHERTFK AWEGLHENS VRLSRQLRRIL LPLYEVDDL R DAFRTLGL

## General References

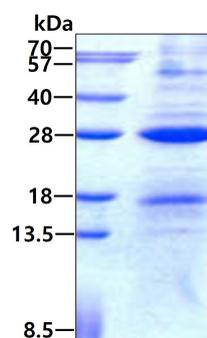
Guo J.u., et al. (2010) Cell. 145:423-434

Noguchi E., et al. (2001) J. Allergy Clin. 108:382-386

## DATA

---

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.