

# Product information

## AICDA, 1-198aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP1895

**Full name:** Activation-induced cytidine deaminase

**NCBI Accession No.:** NP\_065712

**Synonyms:** AID, ARP2, CDA2, HIGM2

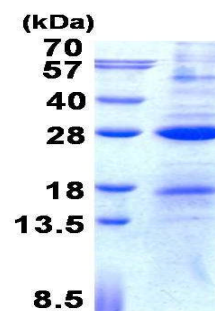
**Description:** AICDA, also known as AID, is involved in somatic hypermutation, gene conversion, and class-switch recombination in B-lymphocytes. This protein is required for several crucial steps of B-cell terminal differentiation necessary for efficient antibody responses. It may also play a role 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*.

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

**Molecular Weight:** 26.1kDa (218aa)

**Purity:** > 85% by SDS - PAGE

**Concentration:** 0.5 mg/ml (determined by Bradford assay)



15% SDS-PAGE (3ug)

### Sequences of amino acids:

MGSSHHHHHH SSGLVPRGSH MDLLMNRK FLYQFKNVRW AKGRRETYLC YVVKRDSAT SFLDFGYLR NKNKGCHVELL FLYISDWDL  
DPGRCYRVTW FTSWSPCYDC ARHVADFLRG NPNLSLRIFT ARLYFCEDRK AEPEGLRRLH RAGVQIAIMT FKDYFYCWNT FVENHERTFK  
AWEGLHNSV RLSRQLRRL LPLYEVDLRL DAFRTLGL

### General references:

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

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

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**For research use only. This product is not intended or approved for human, diagnostics or veterinary use.**



Manufactured for:

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