

**AICDA, 1-198aa, Human, His tag, E.coli**

**Cat.NO.: TP01091**

3th Edition

**Synonyms:** Activation-induced cytidine deaminase, 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)

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMDSLLMNRKFLYQFKNVRWAKGRRETYLCYVVKRRDSATSFSLDFGYLRNKN  
GCHVELLFLRYISDWDLDPGRCYRVTWFTSWSPCYDCARHVADFLRGNPNSLRIFTARLYFCEDRKAPEPEGLRRL  
HRAGVQIAIMTFKDYFYCWNTFVENHERTFKAWEGHNSVRLSRQLRRILLPLYEVDDLRLDAFRTLGL

**Purity:** > 95% by HPLC

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

**Endotoxin Level:** <1.0 EU per 1 ug of protein (determined by LAL method)

**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.