

32-2131: AICDA Recombinant Protein

Alternative Name : Single-stranded DNA cytosine deaminase, Activation-induced cytidine deaminase, Cytidine aminohydrolase, AICDA, AID, ARP2, CDA2, HIGM2.

Description

Source : Escherichia Coli. AICDA Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 218 amino acids (1-198) and having a molecular mass of 26.1kDa. AICDA is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. Activation-Induced Cytidine Deaminase (AICDA) belongs to the cytidine deaminase family. AICDA is involved in somatic hypermutation, gene conversion, and class-switch recombination in B-lymphocytes. AICDA is necessary for a number of crucial steps of B-cell terminal differentiation needed for efficient antibody responses. AICDA has a role in the epigenetic regulation of gene expression by participating in DNA demethylation. AICDA is strongly expressed in the lymph nodes and tonsils.

Product Info

Amount : 20 µg
Purification : Greater than 85.0% as determined by SDS-PAGE.
Content : The AICDA solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M urea and 10% glycerol.
Storage condition : Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
Amino Acid : MGSSHHHHHH SSGLVPRGSH MDSLLMNRRK FLYQFKNVRW AKGRRETYLC YVVKRRDSAT
 SFSLDFGYLR NKNCHVELL FLRYISDWDL DPGRCYRVTW FTSWSPCYDC ARHVADFLRG
 NPNLSLRIFT ARLYFCEDRK AEPEGLRRLH RAGVQIAIMT FKDYFYCWNT
 FVENHERTFKAWEGLEHNSV RLSRQLRRIL LPLYEVDDL R DAFRTLGL.

