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AICDA Human

Catalog #:ENPS-658

For research use only.

Description: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.

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

Source: Escherichia Coli.

Physical Appearance: Sterile filtered colorless solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MDSLLMNRRK FLYQFKNVRW AKGRRETYLC YVVKRRDSAT SFSLDFGYLR NKNGCHVELL FLRYISDWDL DPGRCYRVTW FTSWSPCYDC ARHVADFLRG NPNLSLRIFT ARLYFCEDRK AEPEGLRRLH RAGVQIAIMT FKDYFYCWNT FVENHERTFKAWEGLHENSV RLSRQLRRIL LPLYEVDDLR DAFRTLGL.

Purity: Greater than 85.0% as determined by SDS-PAGE.

Formulation:
The AICDA solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M urea and 10% glycerol.

Stability:
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.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:
Activation-Induced Cytidine Deaminase (AICDA) belongs to the 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.

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