
Product Data Sheet

Product Name: AICDA Human
 Cat. No.: GP21372
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Single-stranded DNA cytosine deaminase; Activation-induced cytidine deaminase; Cytidine aminohydrolase; AICDA; AID; ARP2; CDA2; HIGM2.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MDSLLMNRK FLYQFKNVRW AKGRRETYLC YVVKRRDSAT SFSLDFGYLR NKNVCHVELL FLRYISDWDL DPGRCYRVTW FTSWSPCYDC ARHVADFLRG NPNLSLRIFT ARLYFCEDRK AEPEGLRRLLH RAGVQIAIMT FKDYFYCWNT FVENHERTFKAWEGLHENS VRLSRQLRRIL LPLYEVDDL R DAFRTLGL.		
Formulation	The AICDA solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M urea and 10% glycerol.		

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.

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.

Background

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

Caution: Product has not been fully validated for medical applications. For research use only.

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26.1kDa.AICDA is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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