AID Blocking Peptide – >85% Purity

PRODUCT OVERVIEW

Product Name	AID (AICDA), Blocking Peptide
Full Product Name	AID Blocking Peptide
Product Gene Name	AICDA blocking peptide
Product Synonym Names	AID; Single-stranded DNA cytosine deaminase; Activation-induced cytidine deaminase; Cytidine aminohydrolase
Host	Synthetic
Species Reactivity	Human, Mouse, Rat, Dog, Rabbit
Form/Format	Lyophilized powder
Purity/Purification	>85%
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.
Antibody/Peptide Pairs	AID peptide (MBS8229182) is used for blocking the activity of AID antibody (MBS827974)
Molecular Weight	22,614 Da
OMIM	605257
Quality Control	The quality of the peptide was evaluated by reversed-phase HPLC and by mass spectrometry.
Directions for Use	Blocking Peptide to the diluted primary antibody in a molar ratio of 10:1 (peptide to antibody) and incubate the mixture at 4 degree C for overnight or at room temperature for 2 hours.
Applications Tested/Suitable for AICDA blocking peptide	Blocking (BL)
Related Product Information for AICDA blocking peptide	MBS8229182 is a blocking peptide targeting AICDA. Also known as AID Blocking Peptide. Reactive in Human, Mouse, Rat, Dog, Rabbit. Host: Synthetic. The peptide is used to block Anti-AID Antibody reactivity.
Other Notes	Small volumes of AICDA blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AICDA. It may not necessarily be applicable to this product.

NCBI GI #	10190700
NCBI GeneID	57379
NCBI Accession #	NP_065712.1
UniProt Primary Accession #	Q9GZX7
UniProt Secondary Accession #	Q6QJ81; Q8NFC1
UniProt Related Accession #	Q9GZX7
GenBank Nucleotide #	NM_020661.2
NCBI Official Full Name	single-stranded DNA cytosine deaminase
NCBI Official Synonym Full Names	activation-induced cytidine deaminase

NCBI Official Symbol	AICDA
NCBI Official Synonym Symbols	AID; ARP2; CDA2; HIGM2; HEL-S-284
UniProt Protein Name	Single-stranded DNA cytosine deaminase
UniProt Synonym Protein Names	Activation-induced cytidine deaminase; Cytidine aminohydrolase
Protein Family	Single-stranded DNA cytosine deaminase
UniProt Gene Name	AICDA
UniProt Synonym Gene Names	AID
UniProt Entry Name	AICDA_HUMAN
NCBI Protein Information	single-stranded DNA cytosine deaminase
NCBI Summary for AICDA	This gene encodes a RNA-editing deaminase that is a member of the cytidine deaminase family. The protein is involved in somatic hypermutation, gene conversion, and class-switch recombination of immunoglobulin genes. Defects in this gene are the cause of autosomal recessive hyper-IgM immunodeficiency syndrome type 2 (HIGM2). [provided by RefSeq, Feb 2009]
UniProt Comments for AICDA	AID: Single-stranded DNA-specific cytidine deaminase. Involved in somatic hypermutation, gene conversion, and class- switch recombination in B-lymphocytes. Required for several crucial steps of B-cell terminal differentiation necessary for efficient antibody responses. May also play a role in the epigenetic regulation of gene expression by participating in DNA demethylation. Strongly expressed in lymph nodes and tonsils. Belongs to the cytidine and deoxycytidylate deaminase family. Protein type: EC 3.5.4.38; Hydrolase Chromosomal Location of Human Ortholog: 12p13 Cellular Component: cytoplasm; exosome (RNase complex); nucleus Molecular Function: protein binding; zinc ion binding; ubiquitin protein ligase binding; cytidine deaminase activity Biological Process: somatic diversification of immunoglobulins; B cell differentiation; somatic hypermutation of immunoglobulin genes; isotype switching; cytidine deamination; mRNA processing Disease: Immunodeficiency With Hyper-igm, Type 2
Research Articles on AICDA	**1.** hnRNP K and hnRNP L may serve as A1CF-like cofactors in AID-mediated class switch recombination and somatic hypermutation
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