

CDA active protein

CDA, 1-146aa, Human, His tag, E Coli (Bioactivity Validated)

CATALOG # AAA48626	HOST E Coli	APPLICATIONS SDS-Page
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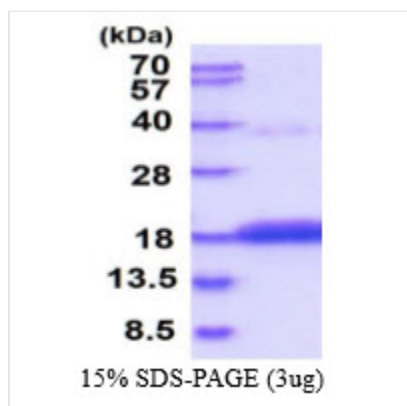
PRODUCT SYNONYMS

CDA; 1-146aa; Human; His tag; E Coli (Bioactivity Validated); Cytidine deaminase; CDD; Cytidine aminohydrolase; Cytosine nucleoside deaminase; CDA active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 90% by SDS-PAGE
Form/Format	Liquid. In 20 mM Tris-HCl Buffer (pH 8.0) containing 1 mM DTT, 2 mM EDTA, 100 mM NaCl, 40% glycerol
Concentration	0.5 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MGSSHHHHH SSGLVPRGSH MAQKRPACKL KPECVQQLLV CSQEAQKSAY CPYSHFPVGA ALLTQEGRIF KGCNIENACY PLGICAERTA IQKAVSEGYK DFRAIAIASD MQDDFISPCG ACRQVMREFG TNWPVYMTKP DGTIYIVMTVQ ELLPSSFGPE DLQKTQ
Sequence Length	146
Applicable Applications for CDA active protein	SDS-PAGE
Antigen Species	Human
Tag Information	His-tag
Biological Activity	Specific activity is > 10,000 pmol/min/ug, and is defined as the amount of required to deaminate 1.0 pmole of cytidine per min at pH 7.5 at 25C.
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for CDA active protein	CDA (Cytidine deaminase) is an enzyme that scavenges exogenous and endogenous cytidine and 2-deoxycytidine for uMP synthesis. This protein is one of several deaminases responsible for maintaining the cellular pyrimidine pool. The protein also catalyzes the deamination of chemotherapeutic cytosine nucleoside analogs such as Ara-C and 5-azacytidine, which results in the loss of their cytotoxic and antitumor function. It can form homotetramers and is mainly expressed in granulocytes. Recombinant human CDA protein, fused to His-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography.
Product Categories/Family for CDA active protein	Enzymes & Proteases
References	Evrard A., et al. (2010) Ther Drug Monit. 32 (1):53-60.; Seeberg EC., et al. (1998) Blood. 91 (11):4127-35.;

NCBI AND UNIPROT INFORMATION

NCBI GI #	32450432
NCBI GeneID	978
Molecular Weight	18.3 kDa (166aa), confirmed by MALDI-TOF
NCBI Official Full Name	Cytidine deaminase
NCBI Official Synonym Full Names	cytidine deaminase
NCBI Official Symbol	CDA
NCBI Official Synonym Symbols	CDD
NCBI Protein Information	cytidine deaminase
UniProt Protein Name	Cytidine deaminase
UniProt Gene Name	CDA
UniProt Synonym Gene Names	CDD

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/cda/48626>