

## Recombinant Human Cytidine Deaminase, His-tagged

**Cat. No.** CDA-796H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human CDA protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography. MW = 18.3 kDa(166aa), confirmed by MALDI-TOF.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	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.
<b>Sequences Of Amino Acids</b>	MGSSHHHHHH SSGLVPRGSH MAQKRPACTL KPECVQQLLV CSQEAKQSAY CPYSHFPVGA ALLTQEGRIF KGCNIENACY PLGICAERTA IQKAVSEGYK DFRAIAIASD MQDDFISPCG ACRQVMREFG TNWPVYMTKP DGTIVMTVQ ELLPSSFGPE DLQKTQ
<b>Purity</b>	> 90% by SDS – PAGE.
<b>Form</b>	Liquid. In 20 mM Tris-HCl Buffer (pH 8.0) containing 1 mM DTT, 2 mM EDTA, 100 mM NaCl, 40% Glycerol.

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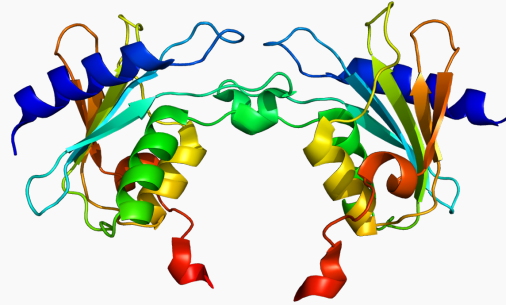
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<b>Concentration</b>	0.5 mg/ml (determined by Bradford assay).
<b>Storage</b>	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	CDA cytidine deaminase [ Homo sapiens ]
<b>Synonyms</b>	CDA; cytidine deaminase; CDD; cytidine aminohydrolase; small cytidine deaminase; cytosine nucleoside deaminase; EC 3.5.4.5
<b>Gene ID</b>	978
<b>mRNA Refseq</b>	NM_001785
<b>Protein Refseq</b>	NP_001776
<b>MIM</b>	123920
<b>UniProt ID</b>	P32320
<b>Chromosome Location</b>	1p36.2-p35
<b>Pathway</b>	Drug metabolism - other enzymes; Metabolic pathways; Pyrimidine metabolism
<b>Function</b>	cytidine deaminase activity; hydrolase activity; metal ion binding; nucleoside binding; protein homodimerization activity; zinc ion binding

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