Recombinant Human Cytidine Deaminase, His-tagged

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	E.coli
Description	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.
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MAQKRPACTL KPECVQQLLV CSQEAKQSAY CPYSHFPVGA ALLTQEGRIF KGCNIENACY PLGICAERTA IQKAVSEGYK DFRAIAIASD MQDDFISPCG ACRQVMREFG TNWPVYMTKP DGTYIVMTVQ ELLPSSFGPE DLQKTQ
Purity	> 90% by SDS – PAGE.
Form	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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Concentration	0.5 mg/ml (determined by Bradford assay).
Storage	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.

GENE INFORMATION

Gene Name	CDA cytidine deaminase [Homo sapiens]
Synonyms	CDA; cytidine deaminase; CDD; cytidine aminohydrolase; small cytidine deaminase; cytosine nucleoside deaminase; EC 3.5.4.5
Gene ID	978
mRNA Refseq	NM_001785
Protein Refseq	NP_001776
MIM	123920
UniProt ID	P32320
Chromosome Location	1p36.2-p35
Pathway	Drug metabolism - other enzymes; Metabolic pathways; Pyrimidine metabolism
Function	cytidine deaminase activity; hydrolase activity; metal ion binding; nucleoside binding; protein homodimerization activity; zinc ion binding

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