Recombinant Human CDA, His-tagged

Cat. No. CDA-26955TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human CDA with an N terminal His tag; 166aa, 18.3kDa.
Species	Human
Source	E.coli
ProteinLength	146 amino acids
Description	This gene encodes an enzyme involved in pyrimidine salvaging. The encoded protein forms a homotetramer that catalyzes the irreversible hydrolytic deamination of cytidine and deoxycytidine to uridine and deoxyuridine, respectively. It is one of several deaminases responsible for maintaining the cellular pyrimidine pool. Mutations in this gene are associated with decreased sensitivity to the cytosine nucleoside analogue cytosine arabinoside used in the treatment of certain childhood leukemias.
Conjugation	HIS
Molecular Weight	18.300kDa inclusive of tags
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 40% Glycerol, 20mM Tris HCl, 2mM EDTA, 100mM

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	Sodium chloride, 1mM DTT, pH 8.0
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHHSSGLVPRGSHMAQKRPACTLKPECVQQLLVCSQEAKQSAYCPYS HFPVGAALLTQEGRIFKGCNIENACYPLGICAERTAIQKAVSEGYKDFRAIAIASDMQ DDFISPCGACRQVMREFGTNWPVYMTKPDGTYIVMTVQELLPSSFGPEDLQKTQ

GENE INFORMATION

Gene Name	CDA cytidine deaminase [Homo sapiens]
Official Symbol	CDA
Synonyms	CDA; cytidine deaminase; CDD;
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, organism-specific biosystem; Drug metabolism - other enzymes, conserved biosystem; Fluoropyrimidine Activity, organism-specific

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	biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem;
Function	cytidine deaminase activity; cytidine deaminase activity; hydrolase activity; metal ion binding; nucleoside binding;

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