

Recombinant Human CDA Over-ex<x>pression Lysate

Cat. No. CDA-317HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CDA Over-expression Lysate was derived from Human HEK293T cell line with C-terminal Myc/DDK.
Species	Human
Source	HEK293
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.
Form	1 vial of 100 g gene specific transient over-expression cell lysate in RIPA buffer 1 vial of 100 g empty vector transfected control cell lysate in RIPA buffer 1 vial of 250ul 2xSDS Sample Buffer (4% SDS, 125mM Tris-HCl pH6.8, 10% Glycerol, 0.002% Bromphenol blue, 100mM DTT)
Molecular Mass	16 kDa
Storage	The lysate is shipped with dry ice. Upon receiving, store the sample at -20 centigrade. Lysate samples are stable for 12 months from date of receipt when stored at -20 centigrade. Avoid repeated freeze-thaw cycles.

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Lysate samples can be diluted with 2xSDS Sample Buffer provided. After dilution, the protein sample should be aliquoted and stored at -20 centigrade for long term storage. Prior to SDS-PAGE fractionation, boil the lysate for 5 minutes.

GENE INFORMATION

Gene Name	CDA cytidine deaminase [Homo sapiens]
Official Symbol	CDA
Synonyms	CDA; cytidine deaminase; CDD; cytidine aminohydrolase; small cytidine deaminase; cytosine nucleoside deaminase;
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 biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of nucleotides, organism-specific biosystem; Pyrimidine metabolism, organism-specific biosystem;

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Function

cytidine deaminase activity; cytidine deaminase activity; hydrolase activity; metal ion binding; nucleoside binding; protein homodimerization activity; zinc ion binding; zinc ion binding;

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