

Bioactive

Full-Length

CDA (Human) Recombinant Protein

Catalog # P9591

Size 20 ug

Specification

Product Description	Human CDA (P32320, 1 a.a. - 146 a.a.) full recombinant protein with His tag at N-terminus expressed in <i>Escherichia coli</i> .
Sequence	MGSSHHHHHHSSGLVPRGSHMAQKRPACTLKPECVQQLLVCSQEAKQSAYCPYSHFPVGAALL TQEGRIFKGCNIENACYPLGICAERTAIQKAVSEGYKDFRAIAIASDMQDDFISPCGACRQVMREFG TNWPVYMTKPDGTYVMTVQELLPSFSGPEDLQKTQ
Host	<i>Escherichia coli</i>
Theoretical MW (kDa)	18.3
Form	Liquid
Preparation Method	<i>Escherichia coli</i> expression system
Purity	> 90.0% by SDS-PAGE
Activity	Specific activity is >> 10000 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 25°C
Recommend Usage	Biological Activity SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	In 20mM Tris-HCl pH 8.0 (100 mM NaCl, 1 mM DTT, 2 mM EDTA and 40% glycerol)
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

Gene Info — CDA

Entrez GeneID	978
Protein Accession#	P32320
Gene Name	CDA
Gene Alias	CDD
Gene Description	cytidine deaminase
Omim ID	123920
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq]
Other Designations	OTTHUMP00000002883 cytidine aminohydrolase cytosine nucleoside deaminase small cytidine deaminase

Pathway

- [Drug metabolism - other enzymes](#)
- [Metabolic pathways](#)
- [Pyrimidine metabolism](#)

Disease

- [Adenocarcinoma](#)
- [Ataxia telangiectasia](#)
- [Carcinoma](#)
- [Colorectal Neoplasms](#)

- [Disease Progression](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Hearing Loss](#)
- [Kidney Failure](#)
- [Leukemia](#)
- [Lung Neoplasms](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Pancreatic Neoplasms](#)
- [Recurrence](#)
- [Stomach Neoplasms](#)