10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Cytidine deaminase, human recombinant protein

CDA, CDD, Cytidine aminohydrolase, Cytosine nucleoside deaminase

Catalog # PBV10986r

Specification

Cytidine deaminase, human recombinant protein - Product info

Primary Accession	P32320
Concentration	0.5
Calculated MW	18.3 kDa (166 aa, 1-146 aa + His Tag). KDa

Cytidine deaminase, human recombinant protein - Additional Info

Gene ID	978
Gene Symbol	CDA

Other Names

CDA, CDD, Cytidine aminohydrolase, Cytosine nucleoside deaminase

Gene Source	Human
Source	E. coli
Assay&Purity	SDS-PAGE; ≥90%
Assay2&Purity2	N/A;
Recombinant	Yes
Sequence	MGSSHHHHHH SSGLVPRGSH MAQKRPACTL KPECVQQLLV CSQEAKQSAY CPYSHFPVGA ALLTQEGRIF KGCNIENACY PLGICAERTA IQKAVSEGYK DFRAIAIASD MQDDFISPCG ACRQVMREFG TNWPVYMTKP DGTYIVMTVQ ELLPSSFGPE DLQKTQ

Target/Specificity

Cytidine Deaminase

Format

Liquid

Storage

-80°C; 0.5 mg/ml in 20 mM Tris-HCl buffer (pH 8.0) containing 100 mM NaCl, 1 mM DTT, 2 mM EDTA and 40% glycerol.

Cytidine deaminase, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation

- Flow Cytomety
- Cell Culture

Cytidine deaminase, human recombinant protein - Images

Cytidine deaminase, human recombinant protein - Background

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. Recombinant human CDA protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.

Cytidine deaminase, human recombinant protein - References

Laliberte J.,et al.Cancer Res. 54:5401-5407(1994).
Demontis S.,et al.Biochim. Biophys. Acta 1443:323-333(1998).
Gran C.,et al.Blood 91:4127-4135(1998).
Gregory S.G.,et al.Nature 441:315-321(2006).
Kuhn K.,et al.Biochem. Biophys. Res. Commun. 190:1-7(1993).