OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for AR09677PU-L

Cytidine deaminase (1-146, His-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Cytidine deaminase (1-146, His-tag) human recombinant protein, 0.5 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MAQKRPACTL KPECVQQLLV CSQEAKQSAY CPYSHFPVGA ALLTQEGRIF KGCNIENACY PLGICAERTA IQKAVSEGYK DFRAIAIASD MQDDFISPCG ACRQVMREFG TNWPVYMTKP DGTYIVMTVQ ELLPSSFGPE DLQKTQ
Tag:	His-tag
Predicted MW:	18.3 kDa
Concentration:	lot specific
Purity:	>90%
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl Buffer (pH 8.0) containing 1 mM DTT, 2 mM EDTA, 100 mM NaCl, 40% Glycerol
Bioactivity:	Specific: Specific activity is > 10,000 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
Preparation:	Liquid purified protein
Protein Description:	Recombinant human CDA protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_001776
Locus ID:	978
UniProt ID:	P32320
Cytogenetics:	1p36.12

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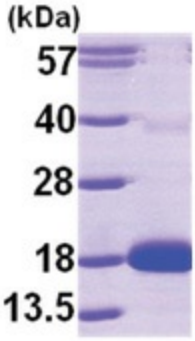
Synonyms: CDD

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, Jul 2008]

Protein Families: Stem cell - Pluripotency

Protein Pathways: Drug metabolism - other enzymes, Metabolic pathways, Pyrimidine metabolism

Product images:



15% SDS-PAGE (3ug)