

Recombinant Human dCMP Deaminase, His-tagged

Cat. No. DCTD-732H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human DCTD protein, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW = 22.1 kDa (198aa).
Species	Human
Source	<i>E.coli</i>
Description	DCTD (deoxycytidylate deaminase), also known as dCMP deaminase, is a 178 amino acid allosteric enzyme that exists as a homohexamer and belongs to the cytidine and deoxycytidylate deaminase protein family. Using zinc as a cofactor, DCTD catalyzes the deamination of dCMP to dUMP, thereby producing the nucleotide substrate (dUMP) that is used by thymidylate synthase.
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MSEVSCKKRD DYLEWPEYFM AVAFLSAQRS KDPNSQVGAC IVNSENKIVG IGYNGMPNGC SDDVLPWRRT AENKLDTKYP YVCHAE LNAI MNKNSTDVKG CSMYVALFPC NECAKLIQA GIKEVIFMSD KYHDSDEATA ARLLFNMAGV TFRKFIPKCS KIVIDFDSIN SRPSQKLQ
Purity	> 90% by SDS – PAGE.
Form	Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 0.1M NaCl, 1mM DTT, 20% glycerol.
Concentration	0.5 mg/ml (determined by Bradford assay).

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Storage Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name [DCTD dCMP deaminase \[Homo sapiens \]](#)

Synonyms DCTD; dCMP deaminase; MGC111062; deoxycytidylate deaminase; EC 3.5.4.12

Gene ID [1635](#)

mRNA Refseq [NM_001012732](#)

Protein Refseq [NP_001012750](#)

MIM [607638](#)

UniProt ID [P32321](#)

Chromosome Location 4q35.1

Pathway Metabolic pathways; Pyrimidine metabolism

Function dCMP deaminase activity; hydrolase activity, acting on carbon-nitrogen (but not peptide) bonds; metal ion binding; zinc ion binding

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