

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 ARLLFN MAGV 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).

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA