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## Recombinant human DCTD protein

Catalog Number: ATGP0615

## **PRODUCT INFORMATION**

## **Expression system**

E.coli

#### **Domain**

1-178aa

#### UniProt No.

P32321

#### **NCBI Accession No.**

NP 001912

#### **Alternative Names**

Deoxycytidylate deaminase, dCMP deaminase, MGC111062

## PRODUCT SPECIFICATION

### **Molecular Weight**

22.1 kDa (198aa) confirmed by MALDI-TOF

#### Concentration

0.5mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 1mM DTT, 20% glycerol

#### **Purity**

> 90% by SDS-PAGE

#### Tag

His-Tag

## **Application**

SDS-PAGE

## **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

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



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## **Amino acid Sequence**

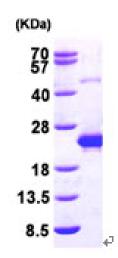
MGSSHHHHHH SSGLVPRGSH MSEVSCKKRD DYLEWPEYFM AVAFLSAQRS KDPNSQVGAC IVNSENKIVG IGYNGMPNGC SDDVLPWRRT AENKLDTKYP YVCHAELNAI MNKNSTDVKG CSMYVALFPC NECAKLIIQA GIKEVIFMSD KYHDSDEATA ARLLFNMAGV TFRKFIPKCS KIVIDFDSIN SRPSQKLQ

### **General References**

Okazaki T., et al. (2009) Clin Cancer Res. 16(1):320-9. Pazy Y., et al. (2009) J Mol Biol. 392(5):1205-20.

## DATA

## **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)4