

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 SGLVPRGSH MSEVSCCKRD DYLEWPEYFM AVAFLSAQRS KDPNSQVGAC IVNSENKIVG IGYNGMPNGC
SDDVLPWRRT AENKLDTKYP YVCHAELNAI MNKNSTDVKG CSMYVALFPC NECAKLIQA GIKEVIFMSD KYHDSDEATA
ARLLFNMAGV TFRKFIPKCS KIVIDFDSIN SRPSQKLQ

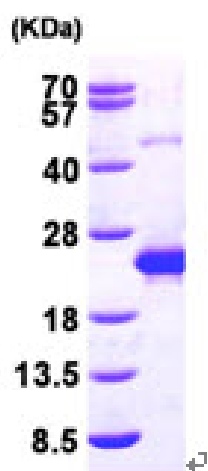
General References

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)