

**DCTD, 1-178aa, Human, His tag, E.coli**

**Cat.NO.: TP01840**

3th Edition

**Synonyms:**Deoxycytidylate deaminase

**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.

**Form:**Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 0.1M NaCl,1mM DTT, 20% glycerol

**Molecular Weight:**22.1 kDa (198aa) confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMSEVSCCKRDDYLEWPEYFMAVAFLSAQRSKDPNSQVGACIVNSENKIVGIGYN  
GMPNGCSDDVLPWRRTAENKLDTKYPYVCHAEINAIMNKNSTDVKGCSMYVALFPCNECAKLIQAGIKEVIFMSD  
KYHDSDEATAARLLFNMAGVTFRKFIPKCSKIVIDFDSINSRPSQKLQ

**Purity:**> 95% by HPLC

**Concentration:**0.5 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**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.