

Recombinant Human DCTD, His-tagged

Cat. No. DCTD-27366TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human DCTD with N terminal His tag; 198 amino acids, MWt 22.1kDa.
Species	Human
Source	E.coli
ProteinLength	178 amino acids
Description	The protein encoded by this gene catalyzes the deamination of dCMP to dUMP, the nucleotide substrate for thymidylate synthase. The encoded protein is allosterically activated by dCTP and inhibited by dTTP, and is found as a homohexamer. This protein uses zinc as a cofactor for its activity. Two transcript variants encoding different isoforms have been found for this gene.
Conjugation	HIS
Molecular Weight	22.100kDa inclusive of tags
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 20% Glycerol, 0.1M Sodium chloride, 20mM Tris HCl, 1mM DTT, pH 8.0

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Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHSSGLVPRGSHMSEVSCKKRDDYLEWPEYFMAVAFLSAQRSKDPN SQVGACIVNSENKIVGIGYNGMPNGCSDDVLPWRRRTAENKLDTKYPYVCHAELNAI MNKNSTDVKGCSMYVALFPCNECAKLIQAGIKEVIFMSDKYHDSDEATAARLLFNM AGVTRKFIPKCSKIVIDFDSINSRPSQKLQ
Sequence Similarities	Belongs to the cytidine and deoxycytidylate deaminase family.

GENE INFORMATION

Gene Name	DCTD dCMP deaminase [Homo sapiens]
Official Symbol	DCTD
Synonyms	DCTD; dCMP deaminase; deoxycytidylate deaminase;
Gene ID	1635
mRNA Refseq	NM_001012732
Protein Refseq	NP_001012750
MIM	607638
Uniprot ID	P32321
Chromosome Location	4q35.1

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Pathway

Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of nucleotides, organism-specific biosystem; Pyrimidine biosynthesis, organism-specific biosystem; Pyrimidine metabolism, organism-specific biosystem;

Function

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

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