

## Recombinant Human DCTD, GST-tagged

Cat. No. DCTD-11865H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Human DCTD protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.

**Species** Human

**Source** E.coli

**ProteinLength** 1-178a.a.

**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.

**Storage** The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.

**Storage Buffer** 1M PBS (58mM Na<sub>2</sub>HPO<sub>4</sub>, 17mM NaH<sub>2</sub>PO<sub>4</sub>, 68mM NaCl, pH8. ) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

### GENE INFORMATION

**Gene Name** DCTD dCMP deaminase [ Homo sapiens ]

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<b>Official Symbol</b>	DCTD
<b>Synonyms</b>	DCTD; dCMP deaminase; deoxycytidylate deaminase; MGC111062;
<b>Gene ID</b>	1635
<b>mRNA Refseq</b>	NM_001012732
<b>Protein Refseq</b>	NP_001012750
<b>MIM</b>	607638
<b>UniProt ID</b>	P32321
<b>Chromosome Location</b>	4q35.1
<b>Pathway</b>	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; Pyrimidine metabolism, organism-specific biosystem; Pyrimidine metabolism, conserved biosystem;
<b>Function</b>	dCMP deaminase activity; hydrolase activity, acting on carbon-nitrogen (but not peptide) bonds; metal ion binding; zinc ion binding;

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