

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 ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 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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 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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