

## Product datasheet for PH317231

### DCTD (NM\_001921) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	DCTD MS Standard C13 and N15-labeled recombinant protein (NP_001912)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC217231
Predicted MW:	21.01 kDa
Protein Sequence:	>RC217231 representing NM_001921 Red=Cloning site Green=Tags(s)  MVGGGQPCGPNMSEVSCKKRDDYLEWPEYFMAVAFLSAQRSKDPNSQVGACIVNSENKIVGIGYNGMPNG CSDDVLPWRRTAENKLDTKYPYVCHAEINAIMNKNSTDVKGCSMYVALFPCNECAKLIIQAGIKEVIFMS DKYHDSDEATAARLLFNMAGVTRKFIKCSKIVIDFDSINSRPSQKLQ  TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_001912</a>
RefSeq Size:	2019
RefSeq ORF:	567
Locus ID:	1635
UniProt ID:	<a href="#">P32321</a>
Cytogenetics:	4q35.1



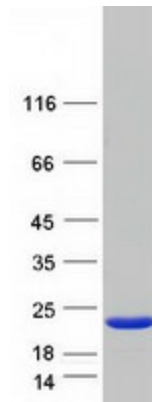
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**Summary:**

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 homo-hexamer. This protein uses zinc as a cofactor for its activity. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

**Protein Pathways:**

Metabolic pathways, Pyrimidine metabolism

**Product images:**

Coomassie blue staining of purified DCTD protein (Cat# [TP317231]). The protein was produced from HEK293T cells transfected with DCTD cDNA clone (Cat# [RC217231]) using MegaTran 2.0 (Cat# [TT210002]).