

Product datasheet for PH323090

DCTD (NM_001012732) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	DCTD MS Standard C13 and N15-labeled recombinant protein (NP_001012750)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC223090
Predicted MW:	20.8 kDa
Protein Sequence:	>RC223090 representing NM_001012732 Red=Cloning site Green=Tags(s) MVGGGQPCGPNMSEVSKKRDDYLEWPEYFMAVAFLSAQRSKDPNSQVGACIVNSENKIVGIGYNGMPNG CSDDVLPWRRTAENKLDTKYPYVCHAEINAIMNKNSTDVKGCSMYVALFPCNECAKLI IQAGIKEVIFMS DKYHDSDEATAARLLFNMAGVTRKFI PKCSKIVIDFDSINSRPSQKLQ 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:	NP_001012750
RefSeq Size:	2042
RefSeq ORF:	567
Locus ID:	1635
UniProt ID:	P32321
Cytogenetics:	4q35.1



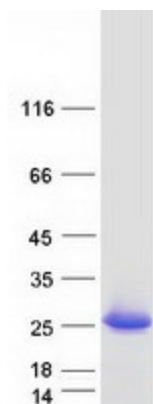
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Summary:

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# [TP323090]). The protein was produced from HEK293T cells transfected with DCTD cDNA clone (Cat# [RC223090]) using MegaTran 2.0 (Cat# [TT210002]).