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## Product Data Sheet

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Product Name: DCTD Human  
 Cat. No.: GP21544  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Deoxycytidylate deaminase; EC 3.5.4.12; dCMP Deaminase; DCTD; MGC111062.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MSEVSCKKRD DYLEWPEYFM AVAFLSAQRS KDPNSQVGAC IVNSENKIVG IGYNGMPNGC SDDVLPWRRT AENKLDTKYP YVCHAELNAI MNKNSTDVKG CSMYVALFPC NECAKLIIQA GIKEVIFMSD KYHDSDEATA ARLLFNMAGV TFRKFIPKCS KIVIDFDSIN SRPSQKLQ.		
Formulation	The DCTD solution (0.5mg/ml) contains 20mM Tris-HCl pH-8, 1mM DTT, 1mM EDTA & 20% glycerol.		

### Introduction

DCTD is an allosteric enzyme that exists as a homohexamer and is part of the cytidine and deoxycytidylate deaminase protein family. DCTD uses zinc as a cofactor to catalyze the deamination of dCMP to dUMP, thus making the nucleotide substrate (dUMP) that is used by thymidylate synthase.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

DCTD Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide chain containing 198 amino acids (1-178 a.a.) and having a molecular mass of 22.1 kDa. The DCTD is fused to a 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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