

DCTD Human

Description: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.

Catalog #:ENPS-545

For research use only.

Synonyms:Deoxycytidylate deaminase, EC 3.5.4.12, dCMP Deaminase, DCTD, MGC111062.

Source:Escherichia Coli.

Physical Appearance:Sterile filtered colorless solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MSEVSCCKRD DYLEWPEYFM
AVAFLSAQRS KDPNSQVGAC IVNSENKIVG IGYNGMPNGC SDDVLPWRRT AENKLDTKYP
YVCHAELNAI MNKNSTDVKG CSMYVALFPC NECAKLIQA GIKEVIFMSD KYHDSDEATA
ARLLFNMAGV TFRKFIPKCS KIVIDFDSIN SRPSQKLQ.

Purity:Greater than 90.0% as determined by SDS-PAGE.

Formulation:

The DCTD solution (0.5mg/ml) contains 20mM Tris-HCl pH-8, 1mM DTT, 1mM EDTA & 20% glycerol.

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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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.

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