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CDA Human

Catalog #:ENPS-014

For research use only.

Description:CDA Human Recombinant fused with a 20 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 166 amino acids (1-146 a.a.) and having a molecular mass of 18.3kDa. The CDA is purified by proprietary chromatographic techniques.

Synonyms: Cytidine deaminase, Cytidine aminohydrolase, CDA, CDD.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MAQKRPACTL KPECVQQLLV CSQEAKQSAY CPYSHFPVGA ALLTQEGRIF KGCNIENACY PLGICAERTA IQKAVSEGYK DFRAIAIASD MQDDFISPCG ACRQVMREFG TNWPVYMTKP DGTYIVMTVQ ELLPSSFGPE DLQKTQ.

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

Formulation:
The CDA solution (0.5 mg/ml) contains 20 mM Tris-HCl Buffer (pH 8.0), 1 mM DTT, 2mM EDTA, 100 mM NaCl and 40% 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 drµgs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:
Cytidine deaminase (CDA) is an enzyme that scavenges exogenous and endogenous cytidine and 2'-deoxycytidine for UMP synthesis. CDA is one of several deaminases responsible for maintaining the cellular pyrimidine pool. CDA also catalyzes the deamination of chemotherapeutic cytosine nucleoside analogs such as Ara-C and 5-azacytidine, which results in the loss of their cytotoxic and antitumor function. CDA can form homotetramers and is generally expressed in granulocytes. Mutations in the CDA gene are linked to decreased sensitivity to the cytosine nucleoside analogue cytosine arabinoside used in the treatment of certain childhood leukemias.

Biological Activity:
Specific activity :> 3.5unit/mg. One unit of activity was defined as the amount required to deaminate 1.0 umole of cytidine per min at pH 7.5 at 250C.

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