

32-2213: CDA Recombinant Protein

Alternative Name : Cytidine deaminase, Cytidine aminohydrolase, CDA, CDD.

Description

Source : Escherichia Coli. 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. 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.

Product Info

Amount :	20 µg
Purification :	Greater than 90.0% as determined by SDS-PAGE.
Content :	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.
Storage condition :	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.
Amino Acid :	MGSSHHHHHH SSGLVPRGSH MAQKRPACTL KPECVQQLLV CSQEAQKSAY CPYSHFPVGA ALLTQEGRIK KGCNIENACY PLGICAERTA IQKAVSEGYK DFRAIAIASD MQDDFISPCG ACRQVMREFG TNWPVYMTKP DGTIVMTVQ ELLPSSFGPE DLQKTQ.

Application Note

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.

