
Product Data Sheet

Product Name: CDA Human
 Cat. No.: GP21471
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Cytidine deaminase; Cytidine aminohydrolase; CDA; CDD.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MAQKRPACTL KPECVQQLLV CSQEAKQSAY CPYSHFPVGA ALLTQEGRIF KGCNIENACY PLGICAERTA IQKAVSEGYK DFRAIAIASD MQDDFISPCG ACRQVMREFG TNWPVYMTKP DGTYIVMTVQ ELLPSSFGPE DLQKTQ.		
Formulation	The CDA solution (0.5mg/ml) contains 20mM Tris-HCl Buffer (pH 8.0), 1mM DTT, 2mM EDTA, 100mM NaCl and 40% Glycerol.		

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.

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%

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

Product Data Sheet

HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

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.

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