Creative Enzymes®

Cytidine deaminase from Human, recombinant

Cat. No. NATE-1668

Lot. No. (See product label)

Introduction

Description	CDA (Cytidine deaminase) is an enzyme that scavenges exogenous and endogenous cytidine and 2'-deoxycytidine for UMP synthesis. This protein is one of several deaminases responsible for maintaining the cellular pyrimidine pool. The protein 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. It can form homotetramers and is mainly expressed in granulocytes. Recombinant human CDA protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
Synonyms	CDA; CDD; Cytidine aminohydrolase; Cytosine nucleoside deaminase

Product Information

Species	Human
Source	E. coli
Form	Liquid
Formulation	10 µl in 50 mM potassium phosphate pH 7.4, 50 mM sodium chloride, 0.5 mM DTT, 0.5 mM EDTA, and 2.5% glycerol.
EC Number	EC 3.5.4.5
Molecular Weight	18.3 kDa (166 aa, 1-146 aa + His Tag).
Purity	> 90% by SDS-PAGE
Activity	> 3.5 unit/mg
Unit Definition	One unit of activity was defined as the amount required to deaminate 1.0 µmole of cytidine per min at pH 7.5 at 25°C.

Storage and Shipping Information

Storage	Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.