

Recombinant E. coli Adenosine Deaminase, 37.7 kDa

Cat. No. CEGZ-6427

Lot. No. (See product label)

Introduction

Description

A recombinant E. coli adenosine deaminase that irreversibly converts adenosine and deoxyadenosine to the corresponding inosine products.

Applications

For research and in vitro deamination of adenosine and deoxyadenosine in purine metabolism and nucleoside-conversion studies.

Synonyms

Ec-Ada; ADA; adenosine aminohydrolase

Product Information

Species

Escherichia coli

Source

Recombinant E. coli

Form

Liquid

EC Number

EC 3.5.4.4

CAS No.

9026-93-1

Molecular Weight

37.7 kDa

Specificity

Adenosine and deoxyadenosine.

Substrates

Adenosine; deoxyadenosine

Reaction

Adenosine + H₂O + H⁺ = inosine + NH₄⁺
Deoxyadenosine + H₂O + H⁺ = deoxyinosine + NH₄⁺

Notes

Mesophilic recombinant enzyme produced in E. coli and purified by His-tag affinity chromatography. Optimal reaction time and enzyme concentration may vary depending on the substrate.

Protocol

50 mM Tris-HCl, pH 7.6 (at 37°C) 5 mM adenosine 0.1 g/L enzyme 37°C, 1 h

Usage

Research and in vitro use only.

Storage and Shipping Information

Storage

-20°C