Creative Enzymes®

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