

Adenosine deaminase Bovine, Recombinant

Cat. No. NATE-0032

Lot. No. (See product label)

Introduction

Description Adenosine deaminase is an enzyme (EC 3.5.4.4) involved in purine metabolism. It is needed for the breakdown of adenosine from food and for the turnover of nucleic acids in tissues. Present in virtually all mammalian cells, its primary function in Humans is the development and maintenance of the immune system.

Applications Adenosine deaminase is useful in various molecular biology assays, such as glycerol release assays. Adenosine deaminase is a potential target for treatments of combined immunodeficiency disease.

Synonyms ADA; adenosine deaminase; adenosine aminohydrolase; 9026-93-1; EC 3.5.4.4

Product Information

Species	Bovine
Source	E. coli
Form	ammonium sulfate suspension. Suspension in 3.2 M (NH ₄) ₂ SO ₄ , 0.01 M potassium phosphate, pH 6.0
EC Number	EC 3.5.4.4
CAS No.	9026-93-1
Molecular Weight	32.5-33 kDa
Activity	60-130 units/mg protein; > 130 units/mg protein; 150-200 units/mg protein
Isoelectric point	4.85
Pathway	Metabolic pathways, organism-specific biosystem; Primary immunodeficiency, organism-specific biosystem; Purine metabolism, conserved biosystem
Function	adenosine deaminase activity; protein binding; zinc ion binding
Unit Definition	One unit will deaminate 1.0 μ mole of adenosine to inosine per min at pH 7.5 at 25°C.

Storage and Shipping Information

Storage 2-8°C