

Native Bovine Deoxyribonuclease II

Cat. No. NATE-0201

Lot. No. (See product label)

Introduction

Description

Deoxyribonuclease II, also called as acid DNase, hydrolyzes deoxyribonucleotide linkages in native and denatured DNA yielding products with 3'-phosphates. In vitro, its optimum pH range is 4.5-5.0. It also acts upon p-nitrophenyl-phosphodiesterases at pH 5.6-5.9. The molecular weight is approximately 38 kDa Da.

Applications

DNase II from Creative Enzymes has been used in the dissociation medium during the preparation of embryonic cardiac myocytes from rat heart. Deoxyribonuclease II from bovine spleen has been used in a study that conducted a partial purification of deoxyribonucleases from eggs and liver of *Xenopus laevis*. Deoxyribonuclease II from bovine spleen has also been used in a study to investigate nucleic acid and protein synthesis of splenic lymphocytes.

Synonyms

DNASE2; deoxyribonuclease II; EC 3.1.22.1; 9025-64-3; DNase II; pancreatic DNase II; deoxyribonuclease 3'-nucleotidohydrolase; DNase II; pancreatic DNase II; acid deoxyribonuclease; acid Dnase

Product Information

Species

Bovine

Source

Bovine spleen

Form

essentially salt-free, lyophilized powder.

EC Number

EC 3.1.22.1

CAS No.

9025-64-3

Activity

> 1,000 units/mg protein

Pathway

Clathrin derived vesicle budding, organism-specific biosystem; Lysosome, conserved biosystem; Membrane Trafficking, organism-specific biosystem

Function

deoxyribonuclease II activity

Unit Definition

One Kunitz unit will produce a ΔA_{260} of 0.001 per min per mL at pH 4.6 at 25°C; [Mg²⁺] = 0.83 mM

Storage and Shipping Information

Storage

-20°C