

## **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-phosphodiesters 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<br/>embryonic cardiac myocytes from rat heart. Deoxyribonuclease II from bovine spleen has been used in a<br/>study that conducted a partial purification of deoxyribonucleases from eggs and liver of Xenopus laevis.<br/>Deoxyribonuclease II from bovine spleen has also been used in a study to investigate nucleic acid and<br/>protein synthesis of splenic lymphocytes.
- SynonymsDNASE2; deoxyribonuclease II; EC 3.1.22.1; 9025-64-3; DNase II; pancreatic DNase II; deoxyribonucleate<br/>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 $\Delta$ A260 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

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