Creative Enzymes®

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 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; deoxyribonucleate 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 ΔA260 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