

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-phosphodiester 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; $[Mg^{2+}] = 0.83$ mM

Storage and Shipping Information

Storage -20°C