Creative Enzymes®

Native Porcine Deoxyribonuclease II

Cat. No. NATE-0202

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 to treat transformed cells during the purification of β-lactamase. It has also been used for the preparation of adenoma tissue in a study that investigated the effect of somatoprim on growth hormone secretion in human adenoma cell cultures (hSA). Deoxyribonuclease II from porcine spleen has been used in an immunohistological study of the immune system cells in paraffin-embedded tissues. Deoxyribonuclease II from porcine spleen has also been used in a study to investigate its reassociation with the lysosomal membrane.

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 Porcine

Source Porcine spleen

Form lyophilized powder. Contains sodium chloride

EC Number EC 3.1.22.1

CAS No. 9025-64-3

Activity 2,000-6,000 Kunitz units/mg protein (biuret)

Pathway Lysosome, organism-specific biosystem; Lysosome, conserved 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