Creative Enzymes®

Deoxyribonuclease I from Bovine, Recombinant

Cat. No. NATE-0200

Lot. No. (See product label)

Introduction

Description	Deoxyribonuclease I (usually called DNase I), is an endonuclease coded by the human gene DNASE1. DNase I is a nuclease that cleaves DNA preferentially at phosphodiester linkages adjacent to a pyrimidine nucleotide, yielding 5'-phosphate-terminated polynucleotides with a free hydroxyl group on position 3', on average producing tetranucleotides. It acts on single-stranded DNA, double-stranded DNA, and chromatin. In addition to its role as a waste-management endonuclease, it has been suggested to be one of the deoxyribonucleases responsible for DNA fragmentation during apoptosis.
Synonyms	DNASE1; deoxyribonuclease I; deoxyribonuclease-1; DNase I; 9003-98-9; EC 3.1.21.1; pancreatic DNase; DNase; thymonuclease, dornase; dornava; dornavac; pancreatic deoxyribonuclease; pancreatic dornase; deoxyribonuclease (pancreatic); pancreatic DNase; DNAase; deoxyribonucleic phosphatase; alkaline deoxyribonuclease; alkaline DNase; endodeoxyribonuclease I; DNA depolymerase; Escherichia coli endonuclease I; deoxyribonuclease A; DNA endonuclease; DNA nuclease

Product Information

Species	Bovine pancreatic
Source	Pichia pastoris
Form	lyophilized powder
EC Number	EC 3.1.21.1
CAS No.	9003-98-9
Purity	Chromatographically purified
Activity	> 5000 units per mg protein
Stabilizers	glycine
Buffer	5mM calcium acetate, 4mg/ml glycine, pH 5.0 and 50% glycerol.
Unit Definition	One Unit causes an increase in absorbance at 260nm of 0.001 per minute at 25oC when acting upon highly polymerized DNA at pH 5.0.

Storage and Shipping Information

Storage	Store at 2-8°C