

## 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