

Native Bovine Deoxyribonuclease I RNase-free solution

Cat. No. NATE-0199

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.

Applications Used in molecular biology applications for removing DNA during RNA purification, for preparing DNA for

nick translation, and for DNA-protein interaction analysis by footprinting methods.

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

Source Bovine pancreas

Form buffered aqueous glycerol solution.

EC Number EC 3.1.21.1

CAS No. 9003-98-9

Molecular

mol wt 29.1 kDa

Weight

Function actin binding; deoxyribonuclease I activity; endodeoxyribonuclease activity

Unit One unit will cause a $\Delta A260$ of 0.001 per min per mL reaction mixture using calf thymus DNA as

Definition substrate.

Storage and Shipping Information

Storage −20°C

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