

# Recombinant Bovine Deoxyribonuclease I

**Cat. No.** DNASE1-1227B    **Lot. No.** (See product label)

## SPECIFICATION

### Product Overview

**Species** Bovine

**Source** Bovine

### Description

Deoxyribonuclease I Bovine (bDNase), an enzyme which selectively cleaves DNA. Bovine Dnase is an endonuclease enzyme which splits phosphodiester linkages within polynucleotides, acting primarily on single stranded DNA (ssDNA), double stranded DNA (ddDNA) and chromatin. Dnase is activated by bivalent metals such as Mg+2 and Ca+2. Dnase enzymes are common reagents used in biochemical methods requiring digestion of DNA and recovery of RNA, or where DNA is to be removed without affecting structural proteins or enzymes. Dnase enzymes are also used in tissue culture to digest DNA from damaged cells, resulting in reduced viscosity, and for removal of membrane-bound DNA fragments.

**Physical Appearance** Sterile lyophilized freeze-dried powder.

**Storage** 2 years when stored at 4°C, three weeks at 15°C, pH-6.3.

## GENE INFORMATION

**Gene Name** DNASE1 deoxyribonuclease I [ *Bos taurus* ]

**Official Symbol** DNASE1

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|                       |                                                                                        |
|-----------------------|----------------------------------------------------------------------------------------|
| <b>Synonyms</b>       | DNASE1; deoxyribonuclease-1; DNase I; NP_776959.1                                      |
| <b>Gene ID</b>        | <a href="#">282217</a>                                                                 |
| <b>mRNA Refseq</b>    | <a href="#">NM_174534</a>                                                              |
| <b>Protein Refseq</b> | <a href="#">NP_776959</a>                                                              |
| <b>UniProt ID</b>     | P00639                                                                                 |
| <b>Function</b>       | actin binding; deoxyribonuclease I activity; endonuclease activity; hydrolase activity |

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