

Recombinant Bovine Deoxyribonuclease I

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

SPECIFICATION

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

Synonyms DNASE1; deoxyribonuclease-1; DNase I; NP_776959.1

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Gene ID	282217
mRNA Refseq	NM_174534
Protein Refseq	NP_776959
UniProt ID	P00639
Function	actin binding; deoxyribonuclease I activity; endonuclease activity; hydrolase activity

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