

Recombinant DNase I

Cat. No. DNASE1-01H Lot. No. (See product label)

SPECIFICATION

Product Overview	<p>DNase I (Deoxyribonuclease I, deoxyribonuclease I) is a deoxyribonuclease endonuclease that can randomly decompose single-stranded or double-stranded DNA to the same extent to generate oligonucleotides with 5'-P ends. DNase I hydrolyzes single-stranded or double-stranded DNA. Its activity is highly dependent on the Ca²⁺ level and can be activated by Mg²⁺ or Mn²⁺. Under the condition of Mg²⁺ presence, DNase I can randomly cleave any site of double-stranded DNA. Under the condition of the presence of Mn²⁺, DNase I can cleave the two strands of DNA at approximately the same sites, thereby obtaining sticky ends with flat ends or 1-2 nucleotide protrusions.</p>
Bio-activity	<p>Within 10 minutes at 37°C, the amount of enzyme required to completely degrade 1µg of pBR322 plasmid DNA is defined as one active unit.</p>
Storage	<p>Store at -20°C.</p>
Reconstitution	<p>It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.</p>

GENE INFORMATION

Gene Name	dnase1 deoxyribonuclease I [<i>Xenopus laevis</i>]
Official Symbol	DNASE1
Synonyms	DNASE1; deoxyribonuclease I; dnase1-A;

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Gene ID	394359
mRNA Refseq	NM_001087589
Protein Refseq	NP_001081058

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