

Recombinant DNase I

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

SPECIFICATION

Product Overview

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 Ca^{2+} level and can be activated by Mg^{2+} or Mn^{2+} . Under the condition of Mg^{2+} presence, DNase I can randomly cleave any site of double-stranded DNA. Under the condition of the presence of Mn^{2+} , 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.

Bio-activity

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.

Storage

Store at -20°C.

Reconstitution

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.

GENE INFORMATION

Gene Name [dnase1 deoxyribonuclease I \[*Xenopus laevis* \]](#)

Official Symbol [DNASE1](#)

Synonyms DNASE1; deoxyribonuclease I; dnase1-A;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Gene ID	394359
mRNA Refseq	NM_001087589
Protein Refseq	NP_001081058

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