

# DNase I (RNase-free)

Cat. No.: ORT411

**Description:** This product is a recombinant endonuclease expressed and purified from DNase I gene derived from Bovine pancreas. It hydrolyzes phosphodiester bonds producing mono- and oligodeoxyribonucleotides with 5'-phosphate and 3'-OH groups.

## Contents

DNase I (RNase-free)	1500U
Buffer RDD	4mL
RNase-free ddH <sub>2</sub> O	1mL

## Features

- Source: Bovine pancreas
- Activity (U/mg protein): @ 25°C > 2500 U/mg protein,
- RNase: None

## Applications:

- Degradation of DNA template in transcription reactions
- Removal of genomic DNA from RNA preparations
- DNase I footprinting
- Nick translation.

**Unit definition:** One unit of the enzyme completely degrades 1µg of plasmid DNA in 10 minutes at 37°C.

**Storage:** Store all the components at 4°C.

## Preparation of DNase I stock solution

Dissolve the lyophilized DNase I in 550µL of the RNase-free ddH<sub>2</sub>O. Mix gently by inverting. Do not vortex. Divide it into single-use aliquots, and store at -20°C for up to 9 months.

**Note:** Thawed aliquots should be stored at 4°C for up to 6 weeks. Do not refreeze after thawing.

## Preparation of DNase I working solution

Add 10µL DNase I stock solution to 70µL Buffer RDD.  
Mix gently by inverting the tube.