

# Data sheet

## RNase Inhibitor

Cat. No: P0270

### Introduction

RNase Inhibitor is a recombinant protein which specifically inhibits ribonucleases A, B and C. The protein inhibits RNases by binding noncovalently in a 1:1 ratio with a potent affinity ( $k_i > 10^{-14}$  M). RNase inhibitor protein is purified from *E.coli* strain harbouring a plasmid with cloned gene coding of mammalian RNase inhibitor.

### Applications

Inhibition of RNA degradation in a variety of molecular biology applications:

- ✓ cDNA synthesis
- ✓ RT-PCR
- ✓ *In vitro* transcription/translation systems
- ✓ Isolation and storage of RNA
- ✓ *In vitro* RNA synthesis

### Kit Contents

- |                                    |          |
|------------------------------------|----------|
| • RNase Inhibitor ( 20 U/ $\mu$ L) | 10 000 U |
|------------------------------------|----------|

### Storage

-20 °C

### Unit Definition

1 U of RNase inhibitor is defined as an amount of enzyme that blocks activity of 5 ng of RNase A in 50%.

### Quality Control

RNase Inhibitor is free of detectable DNA exo- and endonuclease, and RNase activities.

### Storage buffer

20 mM HEPES-NaOH pH 7.5; 50 mM NaCl; 8 mM DTT; 50 % glycerol (v/v).

***It is recommended to use RNase inhibitor at final concentration of 1 U/ $\mu$ l in reaction mixture.***

*(Continued on reverse page)*

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## Notes



### PRODUCT USE LIMITATION

This product is developed, designed and sold exclusively for research purposes and in vitro use only. The product was not tested for use in diagnostics or for drug development, and is not suitable for administration to humans or animals. Please refer to [www.canvaxbiotech.com](http://www.canvaxbiotech.com) for the Material Safety Data Sheet of the product.

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