

# DATA SHEET

Version: 2  
Revision date: 05/04/2023

## 1. Identification

<b>Product name</b>	<b>RNase Inhibitor</b> (40 U/ $\mu$ L) 10000U
<b>Cat. No</b>	<b>P0270</b>

## 2. Description

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.

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

## 3. Quality Control Specifications

RNase Inhibitor is free of detectable DNA exo- and endonuclease, and RNase activities. Storage buffer: 20 mM HEPES-KOH pH 7.6; 50 mM KCl; 8 mM reducing agent; 50% glycerol (v/v).

## 4. Shipping and Storage specifications

Store at **-20 °C**.

## 5. Applications

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

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

## 6. Further information

**Product Use Limitations** This product is developed, designed and sold exclusively only for research purposes use. The product was not tested for use in diagnostics or for drug development, nor is it suitable for administration to humans or animals.

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