

# RNasin

**Cat. No. :** CW0596S (30  $\mu$ L)  
CW0596M (250  $\mu$ L)  
CW0596L (1 mL)

**Storage Condition:** Store at -20°C.

## Components

Component	CW0596S 30 $\mu$ L	CW0596M 250 $\mu$ L	CW0596L 1 mL
RNasin (40 U/ $\mu$ L)	30 $\mu$ L	250 $\mu$ L	1 mL

## Introduction

This product is a soluble recombinant expressed RNase inhibitor which can specifically bind to RNase to form a complex by non-covalent bond, thus inactivating RNases. It does not inhibit the activity of RNase H, S1 nuclease, SP6, T7 or T3 RNA polymerase, AMV or M-MLV reverse transcriptase, Taq DNA polymerase, RNase T1 or other enzymes, and does not affect the subsequent reverse transcription and translation process. It is widely used in RNA research, such as RT-PCR, cDNA synthesis, mRNA protection, in vitro transcription, in vitro translation, in situ hybridization and mRNA localization.

## Storage Buffer

HEPES-KOH (pH7.6) 20 mM, KCl 50 mM, DTT 8 mM, Glycerol 50% (v/v)

## Activity Definition

1 active unit (U) refers to the amount of enzyme used to inhibit the hydrolysis of the cyclic 2'-3'CMP in 50% 5 ng RNase A.

## Purity

1. The electrophoretic bands of DNA did not change after the reaction between 300 U RNasin and 1  $\mu$ g  $\lambda$ DNA-Hind III decomposition at 37 °C for 1 h.
2. The electrophoretic bands of DNA did not change after the reaction between 300 U RNasin and 1  $\mu$ g superhelical pBR322 DNA at 37 °C for 1 h.
3. The electrophoretic bands of RNA did not change after the reaction between 100 U RNasin and 1  $\mu$ g 16S, 23S rRNA at 37 °C for 1 h.

## Application

cDNA synthesis

In vitro translation

In vitro transcription

RNA amplification

RNA extraction, purification and storage

## Caution

1. This product should avoid frequent freeze-thaw, and store at -70 °C for long-term storage.
2. A final concentration of 1 U/ $\mu$ L is recommended.

This product is for scientific research only, which shall not be used for clinical diagnosis or other purposes.