

## Ribonuclease Inhibitor

(RNase Free)



MO5441

Concentration: 40u/μl



Wet or Dry Ice



### Components (supplied)

Contents of the kit	Amounts
Ribonuclease Inhibitor	2500u

### Description

Ribonuclease Inhibitor RNase- Free inhibits the activity of RNase A, B, C by binding them in a noncompetitive mode at a 1:1 ratio. It does not inhibit RNase 1, T1, T2, H, U1, U2, CL3 and other enzymes.

### Features

- Performs under a wide range reaction condition.
- Protects RNA from degradation at temperature up to 55°C.
- Increase the time RNA can safely store.

### Assay Conditions

100mM Tris-HCL (PH 7.5), 1.2mM EDTA, 0.1mg/ml BSA, 100ng/ml RNase, 0.1mg/ml E. coli[3H] -RNA, 50mg/ml yeast RNA and 8mM DTT.

### Inactivation

DTT at final concentration of 5mM.

### Unit Definition

1u is defined as the amount of ribonuclease inhibitor that inhibits the activity of 5ng Ribonuclease A by 50%.

### Application

- Applied in procedures where RNase contamination constitutes a problem:
  - In vitro transcription
  - In vitro translation
  - cDNA synthesis
  - isolation of mammalian cell fractions that contain mRNA-protein complex.
  - Separation and identification of specific ribonuclease activities.

### Storage Buffer

20mM HEPES-KOH (pH 7.6), 50mM KCl, 5mM DTT, and 50% glycerol.

### Quality Control

The absence of endo-deoxyribonucleases, exo-deoxyribonucleases, phosphatase and ribonucleases confirmed by appropriate quality tests. Functionally tested in RNA and cDNA synthesis.



شکایات مشتری

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