



Ribonuclease Inhibitor(RNase Free)

For Research Use Only

Catalogue No. : MO5441

Concentration: 40U/ μ l

Quantity: 2500U

Store at: -20°C

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 conditions.
- Protects RNA from degradation at temperature up to 55°C.
- Increase the time RNA can safely stored.

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.

Transcriptase or Taq DNA polymerase.

- Increase the time RNA can be safely stored.

Storage Buffer:

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

Quality Control:

The absence of endodeoxyribonucleases, exodeoxyribonucleases, phosphatase and ribonucleases confirmed by appropriate quality tests. Functionally tested in RNA and cDNA synthesis.

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