

## RNase Inhibitor

**Description:** Murine RNase Inhibitor is a recombinant protein with a broad spectrum of RNase inhibitory properties, specifically for RNases A, B, and C. It does not inhibit RNase T1, S1 nuclease, RNase H or RNase from *Aspergillus*. It also does not inhibit the polymerase activity of Reverse Transcriptase, *Taq* DNA Polymerase or RNA polymerases like SP6, T7 or T3. RNase Inhibitor has a size of 50 kD and shows a significantly improved stability. The protein is free of proteases, exonucleases and nickases and has an activity of 40 - 50 U/μl.

**Storage:** -18 °C to - 22 °C

REF	105330	colour
RNase Inhibitor	10000 units	blue

**Application:** It is suitable for all applications where the quality of RNA should not be affected by RNases like RNA isolation and purification, Reverse Transcription and cDNA synthesis or In-vitro transcription/ translation.

**Unit definition:** One unit is defined as the amount of Murine RNase Inhibitor required to inhibit the activity of 5 ng of RNase A by 50%. Activity is measured by the inhibition of hydrolysis of cytidine 2', 3'-cyclic monophosphate by RNase A



- To avoid denaturation, do not heat above 50 °C.
- The recommended concentration of RNase Inhibitor per reaction is 1 U/μl.
- During reaction set up, please add RNase Inhibitor before other components that could be a possible source of RNase contamination (e.g. enzymes).