# *RNase Inhibitor*

**Description:** RNase Inhibitor / Ribonuclease Inhibitor has a broad spectrum of RNase inhibitory properties, including RNase A, RNase B, RNase C and human placental RNase. Does not inhibit RNase T1, S1 nuclease, RNase from *Aspergillus*, RNase H, SP6, T7 or T3 RNA polymerase or RNase ONE™ Ribonuclease.
The 50 kDa recombinant protein exerts its inhibitory effect by noncovalent binding to RNases in a 1:1 ratio.
RNase Inhibitor is active over a broad pH range (pH 5 – 8).
Source: Human placenta

**Content**

| Ref No. | 105302 | 105320 | color |
|---|---|---|---|
| **RNase Inhibitor** | **2000 units** | **10 000 units** | **blue** |
| **Datasheet** | **1** | **1** | **--** |

**Applications:** RNase Inhibitor is suitable for all applications with RNA especially for reverse transcription of RNA into cDNA. Useful in all applications where eukaryotic RNase contamination is a potential problem.

**Concentration:** 20 U/µL

**Unit Definition:** One unit is defined as the amount of RNase Inhibitor / Ribonuclease Inhibitor required to inhibit the activity of 5 ng of ribonuclease A by 50 %. The activity is measured by the inhibition of hydrolysis of cytidine 2.3´-cyclic monophosphate by ribonuclease A.

**Storage Buffer:** 20 mM HEPES-KOH (pH 7.6 at 4 °C), 50 mM KCl, 8 mM DTT and 50 % (v/v) glycerol.

**Quality control**

- 98 % protein homogeneity in 10 % SDS-PAGE
- No detectable exo-/endonuclease and RNase activities

**Storage:** –20 °C

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