



**Just fine Molecular Biology**

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## Ribonuclease Inhibitor (RNase Inhibitor)

**Description** Ribonuclease Inhibitor has broad spectrum RNase inhibitory properties. The 50kDa protein exerts its inhibitory effect by noncovalently binding to RNases in a 1:1 ratio. The product is purified using a combination of ion exchange and affinity chromatography.

**Features : Inhibits Common Eukaryotic RNases:** Ribonuclease Inhibitor has broad-spectrum 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, RNase ONE™ Ribonuclease.

**Compatibility:** Ribonuclease Inhibitor does not inhibit SP6, T7 or T3 RNA Polymerase; AMV or M-MLV Reverse Transcriptase; or *Taq* DNA Polymerase. **Broad pH Range:** Active over a broad pH range (pH 5–8).

**Applications** RT-PCR<sup>(c)</sup>.

- Useful in any applications where eukaryotic RNase contamination is a potential problem.
- Protection of mRNA in cDNA synthesis reactions.
- in vitro transcription/translation.
- Improvement of in vitro virus replication.
- Improvement of RNA translation in homologous systems.
- Preparation of RNase-free antibody.

**Storage Conditions** Store at –20°C.

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

**Unit Definition** One unit is defined as the amount of RNasin® Ribonuclease Inhibitor required to inhibit the activity of 5ng of ribonuclease A by 50%. Activity is

measured by the inhibition of hydrolysis of cytidine 2,3'-cyclic monophosphate by ribonuclease A.

**Concentration** 20u/μl

**Quality Control Tests** SDS-PAGE/purity, DNase, RNase, endonuclease/nickase. **Source** Human Placenta

Cat#      Pack size      Price

105310      2000 units  
105350      10000 units

Version 1.2 12 1.03

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**Bioron GmbH**

**Contact: Phone: +49-(0)-621- 5720 915 Fax:+49-(0)-621-5720 916**  
**E-Mail: [info@bioron.net](mailto:info@bioron.net) [www.bioron.net](http://www.bioron.net)**