

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