

# RNaseRIP Ribonuclease Inhibitor

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Catalogue No.	Pack Size	Concentration
RR-RI-001-2500U	2500 units	40U/μL
RR-RI-001-5000U	5000 units	40U/μL

## Product Description

RNaseRIP Ribonuclease Inhibitor is a rationally designed chimeric protein that is a potent, non-competitive inhibitor of RNase A. This inhibitor is thermostable (functional at 60°C) and is ideal for reactions where low DTT concentrations are required (e.g. in real-time PCR mixes).

## Storage Buffer

The protein is supplied in 20mM Tris-HCl (pH 7.5), 50 mM KCl, 8 mM DTT, 50% (v/v) glycerol.

## Storage Recommendation

Store at -20°C. Avoid exposing product to frequent changes in temperature.

## Unit Definition

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

## Product Application

RNaseRIP Ribonuclease Inhibitor can be used in cDNA synthesis, RT-PCR, *in vitro* transcription and translation, and is useful in any application where RNases could be a potential problem. Use 40 units (1μL) of RNaseRIP Ribonuclease Inhibitor per 20 μL of reaction mixture. During reaction assembly, the inhibitor should be added before other components that are a possible source of RNase contamination.

## Notes

The DTT provided in the Storage Buffer ensures product stability during long term storage but is not necessary for activity.