TargetEx RibonEx RNase Inhibitor 2.5 mg/mL

Catalogue Number: TGX-015, TGX-034

INTRODUCTION

TargetEx RibonEx RNase Inhibitor is a recombinant human placental protein expressed in High Five™ insect cells, resulting endotoxin-free production with better folding properties. It is designed to protect RNA samples from degradation by RNases A, B, and C without the inhibition of Taq DNA polymerases, Bst DNA polymerases, or MMLV reverse transcriptases. Engineered to be stable up to 65 °C for 30 min. 50 kDa, 461 amino acids, native N- and C-terminus (tag free production).

RECOMMENDED USAGE

Use the corresponding buffer to dilute the product. A 2–3-fold dilution is recommended;
(for application specific guidance or optimized conditions, please contact us)

- **KCl-containing inhibitor:** 20 mM Hepes–KOH (pH 7.5), 50 mM KCl, 8 mM DTT, 50% glycerol
- **NaCl-containing inhibitor:** 20 mM Hepes–NaOH (pH 7.5), 50 mM NaCl, 8 mM DTT, 50% glycerol

The diluted solutions can be used for (but not limited to) **the following applications:**

- Preservation of RNA integrity
- RNA isolation and purification
- cDNA synthesis
- RNA sequencing and amplification
- PCR and qPCR applications – RNA protection prior to reverse transcription
- Inhibition of RNases during in vitro transcription or translation experiments

The **optimal concentration** of RibonEx RNase Inhibitor depends on the level of RNase contamination.

For a **standard reverse transcription reaction** use 1 µL of **diluted RibonEx** RNase Inhibitor in a final 20 µL sample volume.

For **optimal activity** 1 mM DTT is essential.

Full activity is maintained on up to 65 °C for 30 minutes.

Note: This product is offered in bulk format at a 2.5 mg/mL concentration in different packaging sizes with **buffer options** containing **NaCl** (TGX-015) or **KCl** (TGX-034). It is also available as Ready-to-Use product at a **40 U/µL concentration** with the same buffer options (TGX-023, TGX-039).

If you have any questions or need further information, please feel free to contact us at **info@targetex.com**!