

Product Description

This product is a recombinant RNase inhibitor that can specifically inhibit RNases A, B and C. It has been highly purified and can bind to RNase in a 1:1 ratio. It does not affect the activity of RNase H or S1 Nuclease. It does not inhibit Taq, AMV, M-MLV, or Phage RNA Polymerases (SP6, T7 or T3). It has stronger antioxidant capacity and can maintain stability at lower concentration of DTT (less than 1 mM).

Size

40 U/ μ L

Unit Definition

One unit (U) is defined as the amount required to inhibit 50% of the activity of 5 ng RNase A.

Storage

Store at $-20\pm 5^{\circ}\text{C}$. Vortex before use. Avoid freeze-thaw cycles.

Quality control

1. No DNase or RNase enzyme activity.
2. No exogenous endo/exonuclease activity.

Application

1. cDNA first-strand synthesis and RT-PCR amplification.
2. In vitro transcription and translation.
3. Isolation and purification of mRNA.
4. One-step fluorescent quantitative amplification.
5. Applications requiring complete RNA isolation.