Creative Enzymes®

RNase Inhibitor from Mouse, Recombinant

Cat. No. COV-003

Lot. No. (See product label)

Introduction

Description	The Murine RNase inhibitor is a soluble mouse-source recombinant protein expressed in E.coli. It can inhibit all kinds of Rnase (RNase A, B, and C). The Murine RNase inhibitor is compatible with the Reverse Transcriptase II, MLV (H-) Reverse Transcriptase, and any kinds of DNA Polymerases. Compared with the human-source RNase inhibitor, the Murine RNase inhibitor doesn't contain the two Cys that is sensitive to oxidation, and therefore has a higher antioxidant activity and is more suitable for high-DTT-sensitive experiments (i.e. qPCR). 1. The Murine RNase Inhibitor can inhibit RNase activity under a board spectrum of pH. The highest inhibitory activity is obtained at pH 7-8. 2. The activity of Murine RNase Inhibitor can be inactivated by bubbling or stirring intensely (i.e. Vortexing). 3. No inhibitory activity for RNase H.
Applications	1. 1st strand synthesis of cDNA 2. Polysome isolation 3. in vitro reverse transcription 4. in vitro cell-free translation system

Product Information

Species	Mouse
Source	E. coli
Form	Liquid
Concentration	40u/ul
Unit Definition	One unit (U) is defined as the enzyme needed for inhibiting 50% activity of 5 ng RNase A. The activity of RNase A is detected by quantifying the hydrolysis of Cyclic 2', 3'-CMP to 3'-CMP.

Storage and Shipping Information

Storage	Store at -20 °C