

Tinzyme Co., Limited

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RNase inhibitor, Murine

Product Number: RNK3501

Shipping and Storage

Store at -20°C.

Components

Component	RNK3501	RNK3501	RNK3501
	30µL	250µL	1mL
RNase inhibitor, Murine (40 U/µL)	30µL	250µL	1mL

Description

It is a spectrum RNase inhibitor with a molecular weight of approximately 50KDa. It can specifically bind to RNase by noncovalent bond to form a complex to inactivate RNase without inhibiting activities of RNase H, nuclease S1, SP6, T7 or T3 RNA polymerase, AMV or M-MLV reverse transcriptase, Taq DNA polymerase and RNase T1. RNasin does not affect subsequent reverse transcription and translation processes. It is widely used in RNA research such as RT-PCR, cDNA synthesis, mRNA protection, in vitro transcription and in vitro translation, preparation of RNase-Free antibodies, in situ hybridization and mRNA localization.

Application

- 1. cDNA synthesis.
- 2. In vitro translation.
- 3. In vitro transcription.
- 4. RNA amplification.
- 5. RNA purification and storage

Unit definition

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

Storage Buffer

20 mM HEPES-KOH (pH7.6), 50 mM KCl, 8 mM DTT, 50% (v/v) Glycerol.

Purity

- 300U RNase inhibitor, Murine, and 1μg λDNA-Hind III decomposition product reacted at 37°C for 1 hour without any change in the electrophoresis band of DNA.
- 300U RNase inhibitor, Murine, and 1µg Superhelix pBR322 DNA reacted at 37°C for 1 hour without any change in the electrophoresis band of DNA
- 300U RNase inhibitor, Murine, and 1µg 16S,23S rRNA reacted at 37°C for 1 hour without any change in the electrophoresis band of RNA

Note

- 6. This product should avoid repeated freezing and thawing. Please store it at -70 °C for long-term storage.
- 7. Suggest using a final concentration of 1U/ $\mu L.$

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