

RNasin

Cat. #: W0596 (30ul, 1200U) **Component:** RNasin 30 µl (40 U/µl) Store at **-20 °C** Ship at **4 °C**

Product description: It is a broad-spectrum RNase inhibitor with a molecular weight of approximately 50 KDa. It can specifically bind to RNase by non-covalent 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.

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

Source: Human placenta

Activity 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.

Quality control assays:

DNase Assay: Incubate 300 U of Rnasin and 1 µg of λ DNA-Hind III or supercoiled pBR322 DNA at 37 ° C for 1 hour. The DNA band was not changed on the gel after electrophoresis.

RNase Assays: Incubate 100 U of Rnasin and 1 µg of 16 S, 23S rRNA at 37 ° C for 1 hour. The bands of RNA were not changed on the gel after electrophoresis.

Physical Purity: A single band at a molecular weight of 50 KDa was detected on SDS-polyacrylamide gels with Coomassie® blue staining. The purity is >90%.

Standard Applications: cDNA synthesis, In vitro translation, In vitro transcription, RNA amplification, RNA purification and storage.

Working concentration: A final concentration of 1 U/µl is recommended.

Cautions: This product is protected from repeated freezing and thawing. Store it at -70 °C for long-term storage.

Our customers also buy:

<i>Better than Matrigel</i>	Real 3D cell culture gel, 3-stiffness & save Cat.# P720
<i>Mouse Tail DNA Extract</i>	20 min. done. Accurate & consistent. No use of organic solvents. Ready for PCR Cat.# T605
<i>1 drop, do PCR Mix</i>	PCR Master Mix - easy dripping Cat.# W2599-5
<i>Thermophilic Reverse Transcriptase</i>	with optimal temperatures at 60-62°C, it can be heat-inactivated at $\geq 90^{\circ}\text{C}$. Cat.# W140
	1-Step 2x RT-PCR Master Mix-SYBR # W141, W142, W143 Make RNA analysis easy as DNA analysis.
<i>10X Virus Titer-up Boost</i> Cat.# P906 / P909	Regulates packaging in transcriptional level Increases Lenti/Retro viral particles up to 10-fold
<i>Water Bath Treatment</i>	1 tablet / treatment / week Cat.# T20
<i>Simple, Reliable</i>	SV40T / hTERT <i>Cell Immortalization Kits</i>
<i>2x Flash HS PCR MasterMix (Dye)</i>	fast extension rate (5-15 sec/kb) and fast HotStart Cat.# W3007-1