Tel : 86-10-56953015
Email : info@cwbio.com

Version: 12/2023

RNaseOff™ RNase Inhibitor

Cat. No. : CW3335S (3000 U)
CW3335M (20000 U)

Storage Condition: Store at 2-8 °C, transport at room temperature.

Components

Component	CW3335S 3000 U	CW3335M 20000 U
RNaseOff™ RNase Inhibitor	3000 U	20000 U
RNaseOff™ RNase Inhibitor Storage Buffer	100 μL	600 μL

Introduction

This product is RNaseOff™ RNase Inhibitor, a lyophilized formed recombinant expressed RNase Inhibitor which can specifically bind to RNase to form a complex by non-covalent bond, thus inactivating RNase A, RNase B and RNase C. It does not inhibit the activity of RNase H, S1 nuclease, SP6, T7 or T3 RNA polymerase, AMV or M-MLV reverse transcriptase, Taq DNA polymerase, RNase T1 or other enzymes, and does not affect the subsequent reverse transcription and translation process. It is widely used in RNA research, such as RT-PCR, cDNA synthesis, mRNA protection, in vitro transcription, in vitro translation, in situ hybridization and mRNA localization.

Activity Definition

1 active unit (U) refers to the amount of enzyme used to inhibit the hydrolysis of the cyclic 2'-3'CMP in 50% 5 ng RNase A.

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Activity Definition

1. The electrophoretic bands of DNA did not change after the reaction between 300 U RNaseOff™ RNase Inhibitor and 1 μg λDNA-Hind Ⅲ decomposition at 37°C for 1 h.
2. The electrophoretic bands of DNA did not change after the reaction between 300 U RNaseOff™ RNase Inhibitor and 1 μg superhelical pBR322 DNA at 37°C for 1 h.
3. The electrophoretic bands of RNA did not change after the reaction between 100 U RNaseOff™ RNase Inhibitor and 1 μg 16S, 23S rRNA at 37°C for 1 h.

Application

cDNA synthesis
In vitro translation
In vitro transcription
RNA amplification
RNA extraction, purification and storage

Protocol

1. Dissolve the RNaseOff™ RNase Inhibitor lyophilized powder with specified amount of RNaseOff™ RNase Inhibitor Storage Buffer. The concentration of dissolved RNaseOff™ RNase Inhibitor should be 40 U/μL.

Component	CW3335S	CW3335M
RNaseOff™ RNase Inhibitor	3000 U	20000 U
RNaseOff™ RNase Inhibitor Storage Buffer	80 μL	540 μL

2. The recommended final concentration is 1 U/μL.
3. Prepared RNaseOff™ RNase Inhibitor can be stored at 4°C for one month. Avoid repeated freeze-thaw, so as not to affect its activity. After redissolving, it can be stored at -20°C and below for 2 years.