

Ver. EN20230918

UCF.ME[™] Murine RNase Inhibitor (40 U/μL)

Product description

Murine RNase Inhibitor is purified from a recombinant strain of $E.\ coli$ in a soluble form. It specifically inhibits the activity of RNases A, B and C through binding noncovalently in a 1:1 ratio with high affinity. This product can be compatible with Hifair III Reverse Transcriptase (Cat#11111ES) and various DNA polymerases verified by RT-PCR and RT-qPCR. Recombinant murine RNase inhibitor does not contain 2 oxidation-sensitive cysteine which are contained in human-origin RNase inhibitor. Therefore, Murine RNase inhibitor has high anti-oxidation activity and is more stable for low DTT experiments (< 1mmol/L), such as qPCR.

Compared with Murine RNase Inhibitor (40 U/ μ L) (Cat#10603ES), The host nucleic acid residue of UCF.METM Murine RNase Inhibitor (40 U/ μ L) is lower, which is suitable for application with more stringent requirements on background bacteria, such as pathogen microorganism detection.

Specifications

Cat.No.	14672ES05 / 14672ES10 / 14672ES20 / 14672ES60 / 14672ES80 / 14672ES94		
Size	2 KU / 10 KU / 20 KU / 100 KU / 1,000 KU / 20,000 KU		
	The required amount of RNase Inhibitor to inhibit 50% activity of 5-ng RNase A is		
Unit Definition	defined as one unit. The activity of RNase A is measured by hydrolyzing of cyclic		
	2', 3'-CMP to generate 3'-CMP.		

Components

Name	14672ES05	14672ES10	14672ES20	14672ES60	14672ES80	14672ES94
UCF.ME [™] Murine RNase	50 μL	250 μL	500 μL	2.5 mL	25 mL	500 mL
Inhibitor (40 U/μL)						

Storage

This product should be stored at -25~-15°C for 1 years.

Instructions

1. Add the following components to a nuclease-free microcentrifuge tube:

Components	Volume (μL)
RNase-free ddH ₂ O	to 20
5× Hifair™ III Buffer	4
Oligo (dT) ₁₈ (50 μM)	1
dNTP Mix (10 mM each)	1
UCF.ME [™] Murine RNase Inhibitor (40 U/μL)	1
Hifair [™] III Reverse Transcriptase (200 U/μL)	1
RNA template	Total RNA:1 ng-5 μg

www. yeasenbiotech.com Page 1 of 2



- 2. Mix gently.
- 3. Incubate at 42° C for 45 min, and inactivate the reaction by heating at 85° C for 5 min.
- 4. Store at -25~-15°C.

Notes

- 1. The product works in a wide pH range and exhibits maximal inhibitory activity at pH 7~8.
- 2. Please handle the product gently to avoid inactivation.
- 3. This product does not inhibit RNase H.
- 4. For your safety and health, please wear lab coats and disposable gloves for operation.

www. yeasenbiotech.com Page 2 of 2