

Thermostable Active Recombinant RNase H

Cat. No. RNase H-24 **Lot. No.** (See product label)

SPECIFICATION

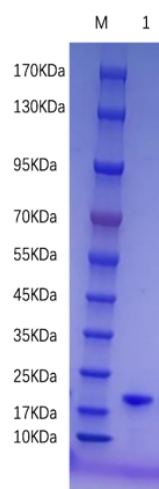
Product Overview	Thermostable recombinant RNase H is an endoribonuclease that remains active at relatively high temperatures. It can selectively recognize and cleave the phosphodiester bonds of RNA in RNA: DNA hybrid duplexes while keeping the DNA in the hybrid duplex intact. It has enzymatic properties similar to those of the common E.coli RNase H. It will not degrade single-stranded or double-stranded RNA or DNA, but it still exhibits high activity above 65 centigrade, making it convenient to be used under high-temperature conditions. DNA Exonuclease Activity: Negative DNA Endonuclease Activity: Negative RNase Activity: Negative Residual Host Cell Protein: <100 pg/mg
Purity	≥ 95% by SDS-PAGE
Bio-activity	≥ 5U/μL
Advantages	1. It can specifically recognize and cut the RNA: DNA heteroduplex. 2. It still has high activity at high temperatures.
Unit definition	1 U refers to the amount of enzyme required to hydrolyze 1nmol of nucleic acid substrate from a 40 pmol RNA-DNA hybrid strand with a length of 25 base pairs (bp) within 20 minutes in a 50 μL reaction system at 50 centigrade.
Usage	1. Prepare the reaction system on ice: RNA: DNA complex: 2 μg 10× RNase H Reaction buffer: 10 μL Thermostable recombinant RNase H: 1 μL Water: Up to 100 μL 2. Incubate at 50 centigrade for 20 minutes. 3. Add 1 μL of 0.5 M EDTA to

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	terminate the reaction.
Applications	1. Depiction of RNA structure maps with high stringency and site-specific RNA cleavage. 2. Enzymatic removal of the poly (A) of mRNA hybridized with oligo (dT). 3. Removal of mRNA after cDNA synthesis. 4. Isothermal amplification.
Note	1. Try to avoid freeze-thaw cycles of this product after receipt; 2. Please wear lab coat and disposable gloves when using; 3. This product should not be used directly for clinical diagnosis and treatment.
Stability	This product should be stored at -20 centigrade and can be stored for at least 12 months.
Storage	Store at -20 centigrade.
Storage Buffer	50mM Tris-HCl, 100mM NaCl, 1mM DTT, 0.1mM EDTA, 0.1% Triton® X-100, 50% Glycerol, pH=7.5
Shipping	Dry Ice

SDS-PAGE

M: Marker 1: Thermostable recombinant RNase H

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