HB220412

RNase H

Product Information

Product Name	Cat#	Specification
RNase H	12906ES76	500 U
	12906ES90	5000 U

Product Description

RNase H (ribonuclease H) is an endoribonuclease that specifically hydrolyzes the phosphodiester bonds of RNA on hybrid DNA/RNA strands, but will not hydrolyze phosphates in single- and double-stranded DNA or RNA diester bond.

Product Components

Components		12906ES76 (500 U)	12906ES90 (5000 U)
12906-A	RNase H	100 μL	1 mL
12906-B	10×RNase H Reaction Buffer*	1 mL	10×1 mL

[Note]：*10×RNase H Reaction Buffer：750 mM KCl，500 mM Tris-HCl，30 mM $MgCl_2$，100 mM Dithiothreitol，pH 8.3 @ 25℃。

Shipping and Storage

All the components are shipped with dry ice and can be stored at -20°C for two years.

Applications

1. Remove mRNA before cDNA double-strand synthesis;
2. In RT-PCR/RT-qPCR experiments, remove RNA after the synthesis of one strand of cDNA;
3. Remove poly(A) after Oligo(dT) hybridizes with mRNA;
4. Cleavage of RNA-specific sites.

Definition of enzymatic activity

In 50 μL reaction system, the amount of enzyme required to hydrolyze the RNA-DNA hybrid strand to generate 1 nmol of ribonucleotides was defined as 1 U at 37°C for 20 min.

Cautions

1) For your safety and health, please wear a lab coat and disposable gloves for operation.
2) This product is only for scientific research purposes!