Ver.CN20240116

RNase HII, Glycerol-free (2 U/μL)

Product description

RNase HII is a ribonuclease internal enzyme obtained from the *Pyrococcus abyssi* and recombinantly expressed in *E. Coli*. It recognizes the DNA-rN-DNA/DNA double strand, cutting at the site where ribonucleotides are incorporated into DNA. However, its activity on single-stranded RNA is very low, and it shows no cutting activity on dsDNA or ssDNA. RNase HII cuts at the site of a single ribonucleotide residue from the 5' end, producing a 5' phosphate group and a 3' hydroxyl end after cutting. This RNase HII enzyme has optimal activity at 70~75°C, is active between 50°C and 75°C, but has very low activity at room temperature. The product is highly thermostable, with almost no loss of activity after incubation at 95°C for 45 minutes, and is compatible with various PCR reaction systems. This product does not contain glycerol and is specifically used for the preparation of freeze-dried reagents.

Specifications

Cat.No.	14541ES80/14541ES92
Size	1 KU /10 KU

Components

Name	14541ES80	14541ES92
RNase HII, Glycerol-free (2 U/μL)	500 μL	5× 1 mL

Storage

This product should be stored at 2～8°C for 6 mouths.

Product Application

1. Detection by LAMP with high-sensitivity probes.
2. RNase HII-dependent PCR (rhPCR).
3. Removal of mismatched ribonucleotides formed during polymerase chain reaction.
4. Degradation of the RNA portion of Okazaki fragments.

Notes

1. This product is for research use only.
2. Please operate with lab coats and disposable gloves, for your safety.