

## HelixZyme™ Thermostable RNase H

### Kit contents

HelixZyme™ Thermostable RNase H			
Cat. No.	TRH500	TRH2500	TRH250K
Thermostable RNase H (25 unit/ul)	0.02 ml	0.1 ml	1 ml x 10 ea
Instruction for Use	1 ea	1 ea	1ea

### Description

Nanohelix **Thermostable Ribonuclease H** is a recombinant protein purified from *E. coli* cloned the gene encoding the *Thermus thermophilus* RNase H. RNase H is an endoribonuclease and catalyzes the degradation of RNA in a DNA-RNA hybrid. Unlike the *E. coli* RNase H, which is inactivated at above 50°C, Thermostable RNase H is stable and active at high temperatures. This enzyme can be used at temperature up to 95°C and showing about 3-fold higher activity at 70°C than that of *E. coli* RNase H at 37°C.

### Applications

- Second strand cDNA synthesis
- Detection of DNA-RNA hybrids
- Site-specific cleavage of RNA hybridized to a short oligonucleotide.
- Transcription mediated amplification (TMA or NASBA)
- Removing poly(A) tails from mRNA, possibly to improve band resolution in gel electrophoresis

### Concentration

25 unit/μl

### Store

-20°C

### NanoHelix Co., Ltd.

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## Products

Cat. No.	Products	Size
TRH500	HelixZyme™ Thermostable RNase H	500 units
TRH2500	HelixZyme™ Thermostable RNase H	2,500 units
TRH250K	HelixZyme™ Thermostable RNase H	250,000 units

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