RNase H

Cat. No. : RK20535

Product components

Components	Component Number	250 U	1250 U
RNase H (5,000 U/mL)	RM21305	50 μL	250 μL
10X RNase H Reaction Buffer	RM20142	1.25 mL	1.25 mL

Product Description

RNase H (Ribonuclease H) is an endoribonuclease that specifically hydrolyzes the phosphodiester bonds of RNA which is hybridized to DNA. This enzyme does not digest single or double-stranded DNA.

Product Source

An *E.coli* strain that carries the cloned RNase H gene (rnh) from *Escherichia coli*.

Storage Temperature

-20℃

Unit Definition

One unit is defined as the amount of enzyme required to produce 1 nmol of ribonucleotides from 20 picomoles of a fluorescently labelled 50 base pair RNA-DNA hybrid in a total reaction volume of 50 μL in 20 minutes at 37℃.

Reaction Conditions

1X RNase H Reaction Buffer, Incubate at 37℃

1X RNase H Reaction Buffer

50 mM Tris-HCl, 75 mM KCl, 3 mM $MgCl_2$, 10 mM dithiothreitol, pH 8.3 @ 25℃

Storage Conditions

10 mM Tris-HCl, 50 mM KCl, 0.1 mM EDTA, 1 mM DTT, 200 μg/mL Recombinant Albumin, 50% Glycerol, pH7.4 @ 25℃

Heat Inactivation

65℃ for 20 min

Notes

When 10X RNase H Reaction Buffer (RM20142) thaws from low to room temperature, white precipitates may appear in the solution, which is normal, please dissolve in a water bath at 37℃ and mix well before use.