

RNase H

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

Source: A recombinant *E.coli* strain that carries a plasmid containing the cloned RNase H gene (*rnh*) from *E.coli*.

Unit definition: One unit is defined as the amount of enzyme that will hydrolyze 1 nmol of the RNA in [³H]-labelled poly (dA) • poly (dT), to acid-soluble ribonucleotides in a total reaction volume of 50 μ l in 20 minutes at 37°C.

1X Assay buffer: 100 mM NaCl, 10 mM Tris-Cl (pH 7.4), 10 mM MgCl₂, 1 mM EDTA & 1 mM DTT.

Storage buffer: 100 mM KCl, 20 mM Tris-HCl (pH 7.5), 10 mM MgCl₂, 0.1 mM EDTA, 0.1mM dithiothreitol, 50 μ g/ml BSA and 50% glycerol.

Application:

- Removal of Poly (A) tails of mRNA hybridized to Poly (dT).
- Hydrolysis of mRNA following reverse transcription reaction during second strand cDNA synthesis.
- Oligo deoxyribonucleotide mediated degradation of RNA.

Store at - 20°C

Ordering Information:

Product	Size	Cat #
RNase H	100 U	105446