

Recombinant E.coli rnhA

Cat. No. RnhA-739E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant E.coli RNase H (RNaseHI) was over-expressed in <i>E. coli</i> and highly purified. MW is 17.6 kDa. MW = 17.6 kDa.
Species	E.coli
Source	E.coli
Description	Ribonuclease H (RNase H) is an endoribonuclease which specifically degrades the RNA strand of an RNA/DNA hybrid, leaving the DNA strand and unhybridized RNA intact.
Purity	Greater than 95% protein determined by SDS-PAGE.
Form	50 units/ul in 20mM Tris-HCl (pH 7.5), 100mM KCl, 1mM DTT, 50% Glycerol.
Specific Activity	100,000 units/mg protein. 1 unit is defined as the amount of the enzyme that hydrolyzes 1 nmol of the RNA in 3H labeled M13 DNA/RNA hybrid to acid-soluble ribonucleotides in 20 min at 37°C.
Applications	1) Removal of mRNA in DNA/RNA hybrid prior to the synthesis of the second strand of cDNA. 2) Removal of poly (A) tails from mRNA after hybridization with oligo (dT). 3) Oligodeoxyribonucleotide-directed site-specific cleavage of RNA.
Reagents Supplied With Enzyme	100 mM Tris-HCl (pH 8.0), 100 mM MgCl ₂ , 500 mM NaCl, 10 mM DTT, 500 ug/ml BSA (Bovine Serum Albumin).

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Caution

To avoid contamination of trace amounts of nucleic acids in BSA, use reaction buffer that does not contain BSA and use RNaseH at higher concentrations.

Storage

at -20°C.

GENE INFORMATION**Gene Name**

rnhA ribonuclease HI, degrades RNA of DNA-RNA hybrids [*Escherichia coli* str. K-12 substr. MG1655]

Synonyms

rnhA; ribonuclease HI, degrades RNA of DNA-RNA hybrids; cer; dasF; ECK0214; herA; JW0204; rnh; sdrA; sin; EC 3.1.26.4; RNase HI, degrades RNA of DNA-RNA hybrids, participates in DNA replication

Gene ID

946955

Protein Refseq

NP_414750

Pathway

DNA replication

Function

DNA-dependent DNA replication; A catabolic process; proteolysis

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**Crystallographic
structure of E. coli
RNase HI.**

