Datasheet for ABIN3188205

RNase H, E. coli

Overview

Quantity:	500 U
Application:	RNA Modification (RNA Mod)

Product Details

Characteristics:	RNase H (Ribonuclease H), E. coli is an endoribonuclease that specifically hydrolyzes the phosphodiester bonds of RNA strands in RNA-DNA hybrids. This enzyme cleaves the 3'-O-P-bond of RNA and generates 3' hydroxyl and 5' phosphate products. RNase H does not digest single-stranded or double-stranded DNA and RNA.
Components:	Enzyme supplied with 10X Reaction Buffer
Unit Definition:	One unit is defined as the amount of RNase H, E. coli that is required to hydrolyze 1 nmol of the RNA in radiolabeled poly(rA):poly(dT), to acid-soluble ribonucleotides in a total reaction volume of 50 µl in 20 minutes at 37°C in 1X RNase H, E. coli Reaction Buffer with 10 nmol radiolabeled poly(rA) and 12.5 µg poly(dT).

Application Details

Comment:	• Removal of mRNA prior to synthesis of second strand cDNA • Removal of the poly(A) sequences from mRNA in the presence of oligo (dT) • Directed cleavage of RNA
Restrictions:	For Research Use only

Handling

Concentration:	5 U/µL
Buffer:	20 mM Tris-HCl (pH 7.5), 100 mM KCl, 10 mM MgCl2, 0.1 mM DTT, 0.1 mM EDTA, and 50 % (v/v) Glycerol.
Storage:	-20 °C

Publications

Product cited in:	Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (1991)