

## retroviral ribonuclease H

Cat. No. EXWM-3589

Lot. No. (See product label)

## Introduction

**Description** Comments: Retroviral reverse transcriptase is a multifunctional enzyme

responsible for viral replication. To perform this task the enzyme combines two distinct activities. The polymerase domain (EC 2.7.7.49, RNA-directed DNA polymerase) occupies the N-terminal two-thirds of the reverse transcriptase whereas the ribonuclease H domain comprises the C-terminal remaining one-third.

The RNase H domain of Moloney murine leukemia virus and Human

immunodeficiency virus display two metal binding sites.

**Synonyms** RT/RNase H; retroviral reverse transcriptase RNaseH; HIV RNase H

## **Product Information**

**Form** Liquid or lyophilized powder

**EC Number** EC 3.1.26.13

*CAS No.* 9050-76-4

**Reaction** Endohydrolysis of RNA in RNA/DNA hybrids. Three different cleavage modes:1.

sequence-specific internal cleavage of RNA. Human immunodeficiency virus type 1 and Moloney murine leukemia virus enzymes prefer to cleave the RNA strand one nucleotide away from the RNA-DNA junction.2. RNA 5'-end directed cleavage 13-19 nucleotides from the RNA end.3. DNA 3'-end directed cleavage 15-20 nucleotides

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away from the primer terminus.

**Notes** This item requires custom production and lead time is between 5-9 weeks. We can

custom produce according to your specifications.

## Storage and Shipping Information

**Storage** Store it at +4 °C for short term. For long term storage, store it at -20 °C∼-80 °C.

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