Creative Enzymes®

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 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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.