Creative Enzymes®

ribonuclease E

Cat. No. EXWM-3588

Lot. No. (See product label)

Introduction

Description	RNase E is a bacterial ribonuclease that plays a role in the processing of ribosomal RNA (9S to 5S rRNA), the chemical degradation of bulk cellular RNA, the decay of specific regulatory, messenger and structural RNAs and the control of plasmid DNA replication. The enzyme binds to monophosphorylated 5' ends of substrates but exhibits sequential cleavages in the 3' to 5' direction. 2'-O-Methyl nucleotide substitutions at RNase E binding sites do not prevent binding but do prevent cleavage of non-modified target sequences 5' to that locus. In Escherichia coli, the enzyme is found in the RNA degradosome. The C-terminal half of the protein contains binding sites for the three other major degradosomal components, the DEAD-box RNA helicase Rh1B, enolase (EC 4.1.1.11) and polynucleotide phosphorylase (EC 2.7.7.8).
Synonyms	endoribonuclease E; RNase E; Rne protein

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 3.1.26.12
CAS No.	76106-82-6
Reaction	Endonucleolytic cleavage of single-stranded RNA in A- and U-rich regions
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 ℃.