Creative Enzymes®

Ribonuclease R from E. coli

Cat. No. NATE-1636

Lot. No. (See product label)

Introduction

Description RNase R is an 3'-->5' exoribonuclease closely related to RNase II, which has been shown to be involved in selective mRNA degradation, particularly of non stop mRNAs in bacteria. RNase R has homologues in many other organisms. When a part of another larger protein has a domain that is very similar to RNase R, this is called an RNase R domain.

Applications • Alternative splicing studies • Gene expression studies • Intron cDNA production • Intronic screening of cDNA libraries • Isolation of splicing intermediates and lariats

Synonyms RNase R; Ribonuclease

Product Information

Source E. coli

EC Number EC 3.1.13.1

Activity 20 U/μl

Concentration 1 μg/μl

Optimum temperature 37°C

Buffer RNase R is supplied in a 50% glycerol solution containing 50 mM Tris-HCl (pH 7.5), 100 mM NaCl, 0.1 mM EDTA, 0.1% Triton® X-100 and 1 mM dithiothreitol.

Unit Definition One unit converts 1 μg of poly-r(A) into acid-soluble nucleotides in 10 minutes at 37°C in 20 mM Tris-HCl (pH 8.0), 100 mM KCl and 0.1 mM MgCl2.

Storage and Shipping Information

Storage Store only at -20°C in a freezer without a defrost cycle.