Creative Enzymes®

Native Aspergillus oryzae Ribonuclease T1

Cat. No. NATE-0658

Lot. No. (See product label)

Introduction

Description Ribonuclease T1 (RNase T1) from Aspergillus oryzae is an endoribonuclease that hydrolyzes after G residues. Cleavage occurs between the 3’-phosphate group of a guanidine ribonucleotide and 5’-hydroxyl of the adjacent nucleotide. The initial product is a 2’:3’ cyclic phosphate nucleoside that is hydrolyzed to the corresponding 3’-nucleoside phosphate. It differs from Pancreatic RNase in that it attacks the guanine sites specifically to yield 3'-GMP and oligonucleotides with a 3'-GMP terminal group.

Applications Ribonuclease T1 (RNase T1) from Aspergillus oryzae is used to digest denatured RNA prior to sequencing and is used for protein folding studies.

Synonyms Ribonuclease T1; EC 3.1.27.3; guanyloribonuclease; Aspergillus oryzae ribonuclease; RNase N1; RNase N2; ribonuclease N3; ribonuclease U1; ribonuclease F1; ribonuclease Ch; ribonuclease PP1; ribonuclease SA; RNase F1; ribonuclease C2; binase; RNase Sa; guanyl-specific RNase; RNase G; RNase T1; ribonuclease guaninenucleotido-2'-transferase (cyclizing); ribonuclease N3; ribonuclease N1; 9026-12-4

Product Information

Source Aspergillus oryzae

Form ammonium sulfate suspension; Suspension in 2.8 M (NH4)2SO4 solution

EC Number EC 3.1.27.3

CAS No. 9026-12-4

Activity 300,000-600,000 units/mg protein

Unit Definition One unit will produce acid soluble oligonucleotides equivalent to a ΔA260 of 1.0 in 15 min at pH 7.5 at 37°C, in a reaction volume of 1.0 mL. Substrate: Yeast RNA.

Storage and Shipping Information

Storage −20°C