Creative Enzymes®

Ribonuclease T2 from Aspergillus oryzae, Recombinant

Cat. No. NATE-1930

Lot. No. (See product label)

Introduction

Description	Aspergillus oryzae Ribonuclease T2 is a member of the RNase T2 family of endonucleases that are present in a wide variety of microbial, plant and animal species. In contrast to Aspergillus oryzae Ribonuclease T1, which is an exclusively guanylic-acid specific endonuclease, all RNase T2-like enzymes are essentially base non-specific. However, RNase T2 endonucleases from different species can show slight base preferences. The fungal enzymes, including Aspargillus oryzae RNaseT2, show slight base preference in the following order: A>G>C, U. RNase T2 cleaves between the 3'-phosphate residue of one base and the 5'-OH residue of the adjacent nucleotide forming a 2', 3'-cyclic phosphate intermediate followed by the generation of oligonucleotides with 3'-phosphate residues. This enzyme is also used as a non-mammalian source of RNase in various applications.
Synonyms	Ribonuclease T2; RNase T2; Ribonuclease

Product Information

Species	Aspergillus oryzae
Source	Pichia pastoris
Form	Lyophilized powder
EC Number	EC 3.1.27.1
Molecular Weight	36 kDa
Activity	≥10,000 units per mg protein
Isoelectric point	5
Optimum pH	4.5
Unit Definition	One unit will cause an increase in absorbance of 1.0 at 260 nm at 37°C, pH 4.5 in 15 minutes.

Storage and Shipping Information

Storage	Store at 2-8°C.
Stability	Stable at 12-18 months at 2-8°C.