

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 *Aspergillus 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 $\geq 10,000$ 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.