Creative Enzymes®

Native Bovine Ribonuclease A

Cat. No. NATE-0655

Lot. No. (See product label)

Introduction

Description	Ribonuclease A is an endoribonuclease that cleaves single stranded RNA after pyrimidine nucleotides. It attacks at the 3’ phosphate end. Ribonucleases do not hydrolyze DNA, because the DNA lacks 2'-OH groups essential for the formation of cyclic intermediates. RNase can hydrolyze RNA from protein samples. Pancreatic RNase A specifically cleaves at the 3'-side of pyrimidine (uracil or cytosine) phosphate bonds.
Applications	Ribonuclease A is used to remove RNA from DNA plasmid preparations and protein samples. It is also used in RNA sequence analysis and protection assays. Ribonuclease A is used to remove RNA from DNA plasmid preparations and protein samples. Ribonuclease A is used for RNase protection assays, to remove unspecifically bound RNA, analysis of RNA sequences, to hydrolyze RNA contained in protein samples, and the purification of DNA. Ribonuclease A from bovine pancreas has been used in a study to assess hybridase activity of human ribonuclease-1. Ribonuclease A from bovine pancreas has also been used in a study to investigate particle-based and monolithic columns for cation exchange protein displacement chromatography.
Synonyms	Pancreatic ribonucleases; EC 3.1.27.5; RNase; RNase I; RNase A; pancreatic RNase; ribonuclease I; endoribonuclease I; ribonucleic phosphatase; alkaline ribonuclease; ribonuclease; gene S glycoproteins; Ceratitis capitata alkaline ribonuclease; SLSG glycoproteins; gene S locus-specific glycoproteins; S-genotype-asssocd. glycoproteins; ribonucleate 3'-pyrimidino-oligonucleotidohydrolase; 9001-99-4

Product Information

Species	Bovine
Source	Bovine pancreas
Form	Type I, solid; Type II, Type VI, Type VII, lyophilized powder; Type III, powder; Type IV, buffered aqueous solution, Solution in 0.2 M sodium phosphate buffer, pH 6.4; Type V, powder, white.
EC Number	EC 3.1.27.5
CAS No.	9001-99-4
Molecular Weight	mol wt ~13.7 kDa
Activity	Type I, 50-150 Kunitz units/mg solid; Type II, 85-140 Kunitz units/mg protein; Type III, > 50 Kunitz units/mg protein; Type IV, > 80 Kunitz units/mg protein; Type V, ~100 units/mg protein; Type VI, 50-100 Kunitz units/mg protein; Type VII, 75-125 Kunitz units/mg protein.
Contaminants	salt, essentially free

Storage and Shipping Information

Storage	−20°C

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