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Datasheet

Ribonuclease A

Catalog Number: P5249

Regulation Status: For research use only (RUO)

Product Description: Pancreatic ribonuclease (RNase I) catalyzes cleavage of the phosphodiester bond between the 5'-ribose of a nucleotide and the phosphate group attached to the 3'-ribose of an adjacent pyrimidine nucleotide forming a 2',3'-cyclic phosphate which may then be hydrolyzed to the corresponding 3'-nucleoside phosphate.Ribonuclease is inhibited by heavy metal ions and it is competitively inhibited by DNA. Since Molecular Biology Grade RNase A is essentially free of DNase and protease activities, this product is useful in removing RNA from DNA in nucleic acid work and where other enzymes are used or where intact proteins must be recovered.

Host: Bovine

Theoretical MW (kDa): 13.7

Biological function: Pancreatic ribonuclease (RNase) is an endoribonuclease. There are two forms, RNase A and RNase B, RNase B is the glycosylated form of RNase A.

Applications: Enzyme
(See our web site product page for detailed applications information)

Protocols: See our web site at http://www.abnova.com/support/protocols.asp or product page for detailed protocols

Form: Lyophilized

Preparation Method: Native protein chromatographically purified from Bovine Pancreas

Activity: >=2,500 units per mg dry weight. One Kunitz unit is the amount of enzyme required to cause an increase in absorbance of 1.0 at 260 nm at 37°C (pH 5.0) when yeast rRNA is hydrolyzed to acid-soluble oligonucleotides. 50 units are equivalent to 1 Kunitz unit.

Recommend Usage: Ribonuclease Assay; RNA removal during DNA isolation; RNA sequence analysis; RNase protection assays; RNA quantification or mapping.

Storage Instruction: Store at 4°C on dry atmosphere.

Entrez GeneID: 282340

Gene Symbol: RNASE1

Gene Alias: RNS1