Bioactive

Ribonuclease A

Catalog # P5249 Size 200 mg

Specification

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.
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.
Host	Bovine
Theoretical MW (kDa)	13.7
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.

Applications

- Enzyme Activity

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Gene Info — RNASE1

Entrez GeneID	282340
Protein Accession#	P61823
Gene Name	RNASE1
Gene Alias	RNS1
Gene Description	ribonuclease
Gene Ontology	Hyperlink
Other Designations	ribonuclease A (pancreatic)

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