

Ribonuclease A, Bovine Pancreas Enzyme | RNASE1 enzyme

Ribonuclease A, Bovine Pancreas (RNase A)

CATALOG #
AAA14843

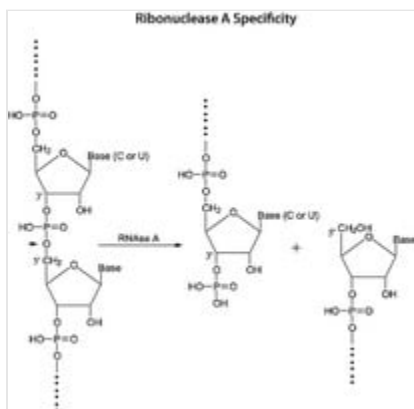
PRODUCT SYNONYMS

Ribonuclease A; Bovine Pancreas; Bovine Pancreas (RNase A); E.C.3.1.27.5; Ribonuclease 3'-pyrimidino-oligonucleotidohydrolase; Ribonuclease 1; RNASE1 enzyme

PRODUCT SPECIFICATIONS

Form/Format	Off-white powder
Source	Bovine pancreas
CAS Number	9001-99-4
Activity	78.4 u/mg
Solubility	Soluble at 10mg/ml in analytical grade water. Colorless, clear, complete.
Unit Definition	One unit will cause the hydrolysis of RNA at that rate where the velocity constant k equals unity (Kunitz units) at 25°C and pH 5.0.
Nomenclature	E.C.3.1.27.5; Ribonuclease 3-pyrimidino-oligonucleotidohydrolase; Ribonuclease 1
Note	Hygroscopic. Keep tightly closed and desiccated
Preparation and Storage	Best stored desiccated at -20 degree C or below. Stable for 6 months after receipt. However, the enzyme is also stored as a refrigerated dry powder or frozen in aqueous solution.

IMAGES



Application Data

Structure of AAA14843RNase A, Pancreatic Ribonuclease, Rib 1; Ribonuclease A Family 1; Ribonuclease Pancreatic; Ribonuclease RNase A Family 1; Ribonuclease RNase A Family 1 Pancreatic; RNaseA; RNase 1; RNASE1; RNS1

ADDITIONAL INFORMATION

Related Product Information for RNASE1 enzyme	Ribonuclease A is used to isolate DNA for RNA-free DNA. Ribonuclease A hydrolyzes RNA at C and U residues, cleaving between the 3'-Phosphate group of a pyrimidine nucleotide and the 5'-hydroxyl group of the adjacent nucleotide, i.e., those cleaving cyclic 2',3'-pyrimidine nucleotide residues either singly or at the termination of purine nucleotide chains (Volkin and Cohn 1953). The composition and structure of ribonuclease A has been extensively investigated. The tertiary structure was reported by Kartha, et al. (1967) and Lin, (1970). Wang, et al. (1975) indicate that flexibility in a three-dimensional structure is essential for optimal catalytic activity.
Product Categories/Family for RNASE1 enzyme	Cloning; Cloning-Enzymes

NCBI AND UNIPROT INFORMATION

NCBI GI #	38201686
NCBI GeneID	6035
NCBI Accession #	NP_937878.1
NCBI GenBank Nucleotide #	NM_198235.2
UniProt Accession #	P07998; Q16830; Q16869; Q1KHR2; Q6ICS5; Q9UCB4; Q9UCB5; B2R589; D3DS06
Molecular Weight	13.7kD
NCBI Official Full Name	ribonuclease pancreatic
NCBI Official Synonym Full Names	ribonuclease, RNase A family, 1 (pancreatic)
NCBI Official Symbol	RNASE1
NCBI Official Synonym Symbols	RIB1; RNS1
NCBI Protein Information	ribonuclease pancreatic; RIB-1; RNase 1; RNase A; HP-RNase; RNase upl-1; ribonuclease 1; ribonuclease A
UniProt Protein Name	Ribonuclease pancreatic
UniProt Gene Name	RNASE1
UniProt Synonym Gene Names	RIB1; RNS1; RNase 1; RNase A
UniProt Entry Name	RNAS1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.