



RNase A (10 mg/mL)

Product description

Ribonuclease A (RNase A) is a single-stranded polypeptide containing 4 disulfide bonds with a molecular weight of about 13.7 kDa. RNase A is an endoribonuclease that specifically degrades single-stranded RNA at C and U residues. Specifically, the cleavage recognizes the phosphodiester bond formed by the 5'-ribose of a nucleotide and the phosphate group on the 3'-ribose of the adjacent pyrimidine nucleotide, so that the 2', 3' - Cyclic phosphates are hydrolyzed to the corresponding 3'-nucleoside phosphates (eg, pG-pG-pC-pA-pG is cleaved by RNase A to generate pG-pG-pCp and A-PG).

RNase A is the most active in cleaving single-stranded RNA and is active in a variety of reaction conditions: at low salt concentrations (0 to 100 mM NaCl), it can be used to cleave single-stranded RNA, double-stranded RNA, and RNA strands in RNA-DNA hybrids. while at high salt concentrations (≥ 0.3 M), RNase A can specifically cleave single-stranded RNA.

RNase A is most used to remove RNA during the preparation of plasmid DNA or genomic DNA. Whether or not DNase is active during the preparation process can easily affect the reaction. The traditional method of boiling in a water bath can be used to inactivate DNase activity. This product does not contain DNase and protease and does not require heat treatment before use. In addition, this product can also be used in molecular biology experiments such as RNase protection analysis and RNA sequence analysis.

This product is supplied as a solution at a concentration of 10 mg/mL. Recommended working concentration is 1-100 μ g/mL, depending on the type of application.

Components

Components No.	Name	10405ES03
10405	RNase A (10 mg/mL)	1 mL

Specifications

Appearance	liquid
Quantity	1 mL
Product type	RNase A

Shipping and Storage

The product is shipped with dry ice and can be stored at -15°C ~ -25°C for one years.

Notes

Please wear the necessary PPE, such lab coat and gloves, to ensure your health and safety.