Ribonuclease A (10 mg/mL)

Introductions

Ribonuclease A (RNase A) is an endonuclease with a molecular weight of about 13.7 kDa, which can specifically recognize pyrimidine 3 '-ribose phosphate groups on RNA and cut phosphodiester bonds formed by adjacent nucleotides. The products of the reaction are pyrimidine 3' phosphate and oligonucleotides with pyrimidine 3' phosphate at the end (for example, pG-pG-pC-pA-pG cleaved by RNase A produces pG-pG-pCp and A-PG). RNase A can cut single-stranded RNA, double-stranded RNA and RNA strands formed by RNA-DNA hybridization under low salt concentration (≤100 mM NaCl). At high salt concentrations (≥ 0.3M), RNase A only specifically cuts single-stranded RNA.

The most common application of RNase A is the removal of RNA during plasmid DNA or genomic DNA preparation. The presence or absence of DNase activity during this preparation is one of the pollution that needs attention. Since RNase A does not become inactivated by heating, the traditional method of water bath boiling can be used to inactivate DNase activity. In addition, this product can also be used for RNA enzyme protection analysis, RNA sequence analysis and other molecular biology experiments.

Composition and storage conditions

Components \ Size	1 mL
Ribonuclease A (10 mg/mL)	1 mL
Store the components at -20 °C for 2 years.	

Usage

The product is provided in solution form with a concentration of 10 mg/mL, and the recommended working concentration is 1-100 μg/mL, compatible with various reaction systems.

Product description

1. Storage solution composition: 50 mM Tris-HCl (pH 7.4) and 50% (v/v) glycerol.

2. Quality assurance: no DNA and DNA enzyme contamination.

3. Inactivation conditions: heating will not inactivate, it is recommended to use centrifugal column or phenol chloroform extraction to fully remove.

Notes

1. For your safety and health, please wear a lab coat and disposable gloves.

2. This product is for scientific use only!

APExBIO Technology
www.apexbt.com
7505 Fannin street, Suite 410, Houston, TX 77054.
Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: info@apexbt.com