

Ribonuclease A

Chemical Properties

CAS No. : 9001-99-4

Formula:

Molecular Weight:

Storage: Store at low temperature
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Ribonuclease A

Biological Description

Description	Ribonuclease A (RNase A) is a potent endonuclease that removes RNA during dna and protein preparation.
Targets(IC50)	Others,DNA/RNA Synthesis
In vitro	<p>The most common application of Ribonuclease A is to remove RNA during plasmid DNA or genomic DNA preparation.</p> <p>Preparation of Ribonuclease A Stock Solution:Prepare a 10 mg/mL Ribonuclease A stock solution using 10 mM sodium acetate (pH 5.2).Heat at 100°C for 15 minutes.</p> <p>Cool to room temperature, add 1/10 (v/v) 1 M Tris-HCl (pH 7.4), and adjust the pH to 7.4. Store at -20°C for stable storage for up to 2 years.</p> <p>Note: Boiling the Ribonuclease A solution under neutral conditions may lead to the precipitation of RNase. Boiling at a lower pH, if precipitation occurs, may be due to the presence of protein impurities. In such cases, the precipitate can be removed by high-speed centrifugation (13,000 rpm).</p>

Solubility Information

Solubility	H2O: 80 mg/mL,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

Reference

- Thakur P, et al. Locating chemical modifications in RNA sequences through ribonucleases and LC-MS based analysis. *Methods Enzymol.* 2021;658:1-24.
- Wallace JA, et al. Predicting pKa values with continuous constant pH molecular dynamics. *Methods Enzymol.* 2009; 466:455-75.
- Brown D, et al. Ribonuclease-resistant RNA controls and standards. *Methods Enzymol.* 2001;341:648-54.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481