



Screening Libraries

Proteins



Product Data Sheet

RNase A, bovine pancreas

 Cat. No.:
 HY-129046

 CAS No.:
 9001-99-4

 Target:
 Others

Pathway:

RNase A, bovine pancreas

Storage: Please store the product under the recommended conditions in the Certificate of

Analysis.

Others

SOLVENT & SOLUBILITY

In Vitro

H₂O: 100 mg/mL (Need ultrasonic)

BIOLOGICAL ACTIVITY

Description

Ribonuclease A (EC 3.1.27.5) cleaves RNA 3' to pyrimidines and actively cleaves RNA at every pyrimidine residue. Ribonuclease A catalyzes the hydrolysis of single stranded RNA in the absence of metal ions or cofactors^{[1][2][3]}.

In Vitro

A major application of RNase A is the removal of RNA from plasmid DNA preparations.

Preparation of RNase A stock solution

- 1. Use 10 mM sodium acetate (pH 5.2) to prepare 10 mg/mL RNase A stock solution;
- 2. Heat at 100 ⋈ for 15 min;
- 4. The solution can be stored at 20 \boxtimes for 2 years.

Note: When the RNase A solution is boiled under neutral conditions, RNase precipitate will form; if it is boiled at a lower pH, any precipitation may be caused by the presence of protein impurities. At this time, the precipitate can be removed by high-speed centrifugation (13 000 rpm).

 $\label{eq:mce} \mbox{MCE has not independently confirmed the accuracy of these methods. They are for reference only.}$

REFERENCES

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

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 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

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