

**Product Details**

Ribonuclease R (RNase R) is a magnesium-dependent 3'→5' exoribonuclease that digests linear RNAs. RNase R does not digest lariat or circular RNA structures.

Application

- Removal of precursor linear RNA after circularisation of RNA
- Alternative splicing studies
- Gene expression studies

Unit Definition

One unit is the amount of enzyme that will convert 1 μg of poly(A) into acid-soluble nucleotides in 10 minutes at 37 °C under standard assay conditions.

Quality Control

No Host Cell Protein and DNase residues.

Purity

>95% as determined by SDS-PAGE.

Formulation

Supplied as 0.2 μm filtered solution in 20mM Tris, 150mM NaCl, 0.1mM EDTA, pH7.5 with glycerol as protectant.

Contact us for customized product form or formulation.

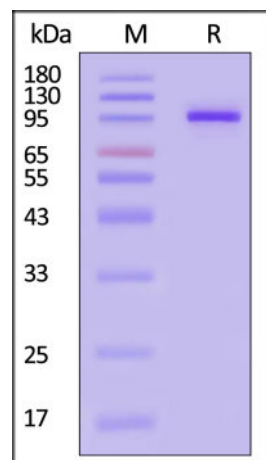
Shipping

This product is supplied and shipped with blue ice, please inquire the shipping cost.

Storage

This product is stable after storage at:

- The product **MUST** be stored at -20°C or lower upon receipt.
- -20°C for 6 months under sterile conditions.

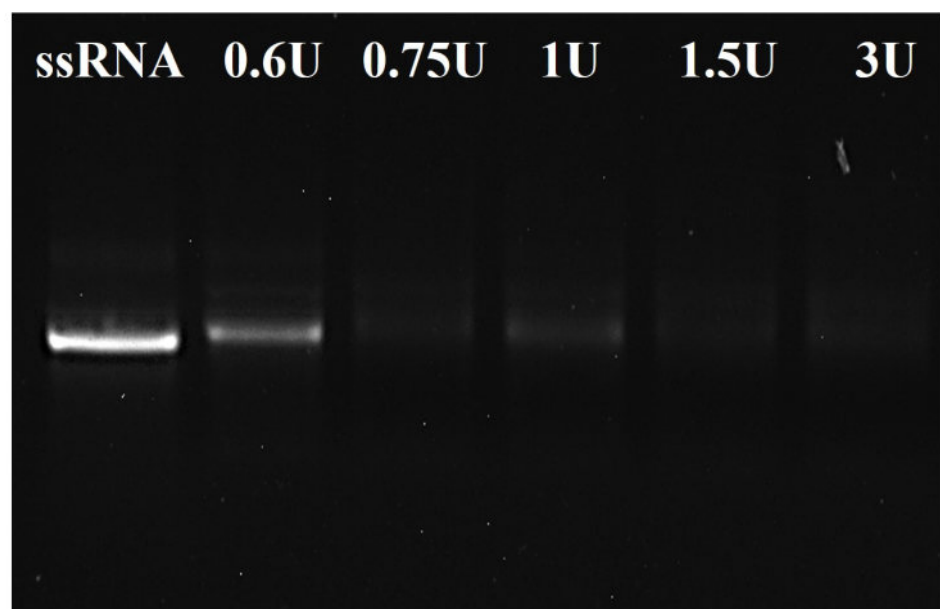
SDS-PAGE

RNase R (20 U/μl) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

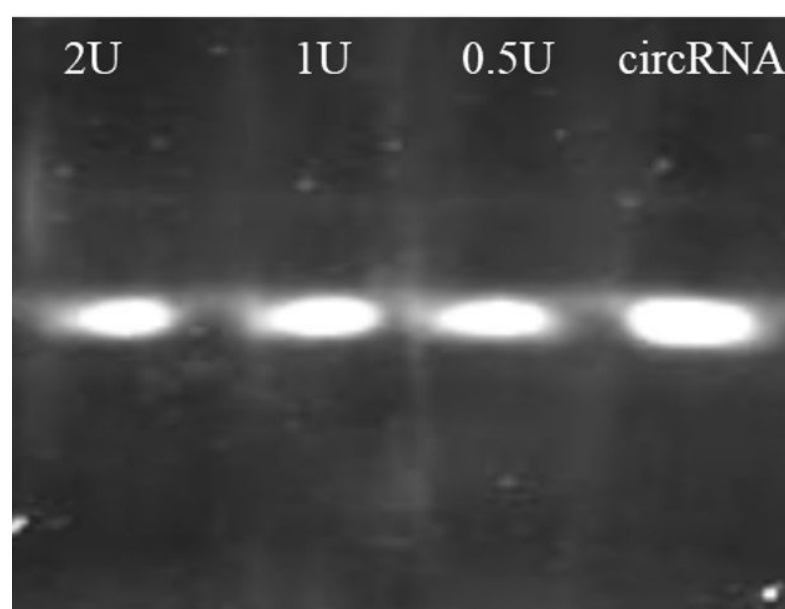
Bioactivity

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.Mixing 1ug ssRNA with 0.6-3U RNase R at 37°C, 30min then electrophoresis detection, it was observed that the ssRNA bands became weak or even disappeared.



.1 ug circRNA substrate was mixed with 0.5-2 U RNase R at 37 °C, 30min then electrophoresis detected, there was no significant change in circRNA.

Clinical and Translational Updates

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