

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 converts 1 μg of poly(A) into acid-soluble nucleotides in 10 minutes at 37 °C under standard assay conditions.

Purity

>95% as determined by SDS-PAGE.

Formulation

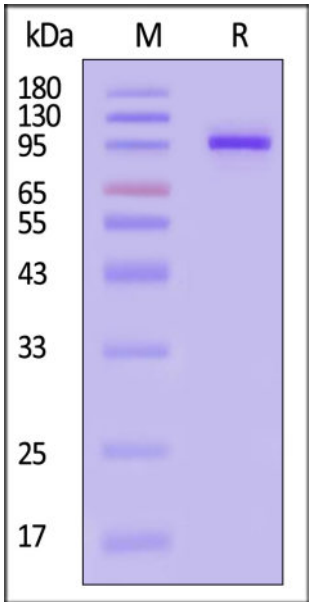
Supplied as 0.2 μm filtered solution in 20mM Tris, 150mM NaCl, 0.1mM EDTA, pH7.5 with glycerol as protectant.

Contact us for customized product form or formulation.

Shipping and Storage

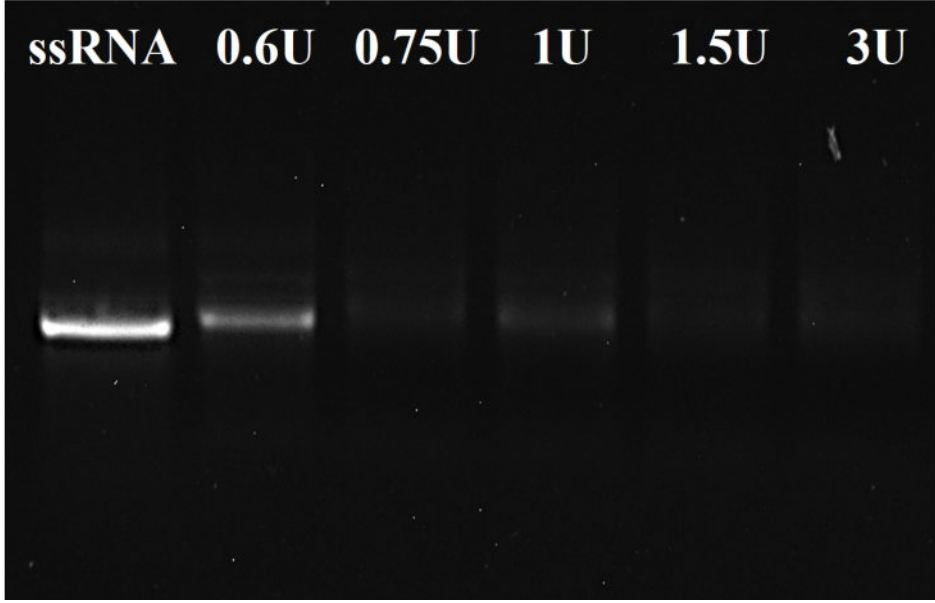
- This product is supplied and shipped on dry ice.
- This product is stable after storage at:
- The product MUST be stored at -20°C or lower upon receipt.
 - 20°C for 6 months under sterile conditions.

SDS-PAGE

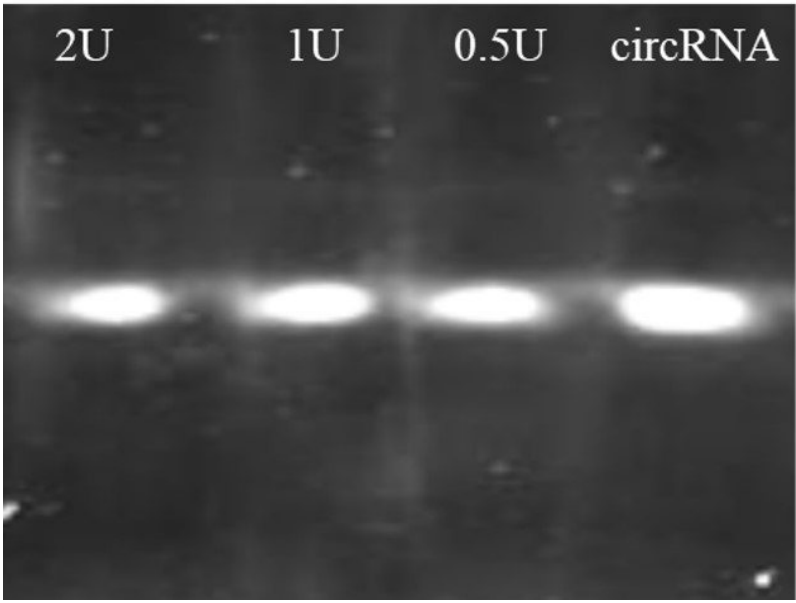


The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

Bioactivity



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.



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