RNase III (2U/μl)

Catalog # RI3-E5143

Product Details

RNase III enzyme typically cleave both strands of double-stranded RNAs (dsRNAs). This enzyme could convert long double-stranded RNA into a heterogeneous mix of short (18–25 bp) interfering RNAs (siRNA) suitable for RNA interference in mammalian cells.

Application

Generate siRNA
Gene silencing
Remove dsRNA

Unit Definition

One unit is defined as the amount of enzyme required to digest 1 μg of 500bp dsRNA to 12-30bp siRNA in 60 minutes at 37°C.

Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Formulation

Supplied as 0.2 μm filtered solution in 10 mM Tris, 500 mM NaCl, 0.5 mM EDTA, pH8.0 with glycerol as protectant.

Contact us for customized product form or formulation.

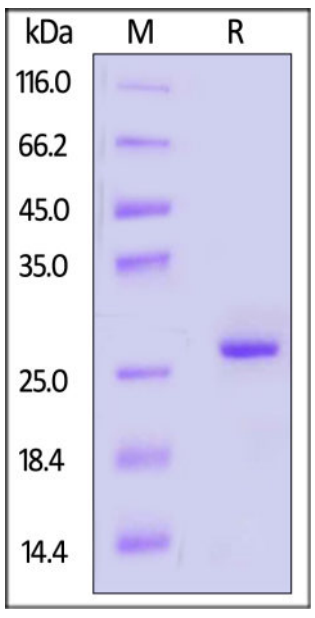
Shipping and Storage

This product is supplied and shipped on dry ice.

This product is stable after storage at:

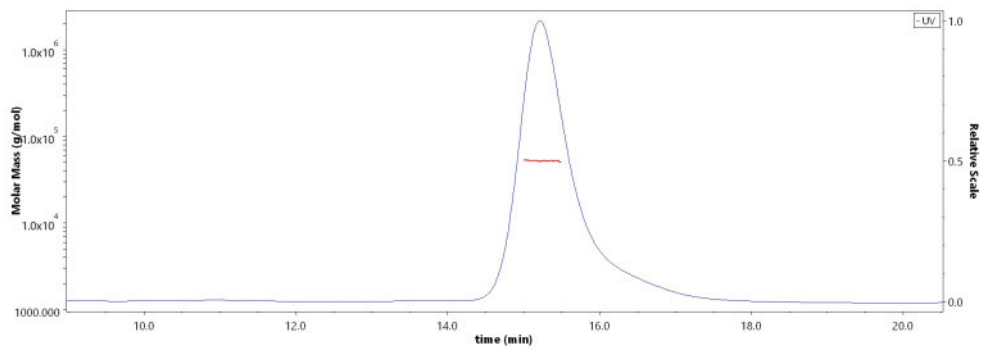
- The product MUST be stored at -20°C or lower upon receipt.
- -20°C for 6 months under sterile conditions.

SDS-PAGE



The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

SEC-MALS



The purity of RNase III (2U/μl) (Cat. No. RI3-E5143) is more than 90% and the molecular weight of this protein is around 45-60 kDa verified by SEC-MALS.