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.

Quility Control

Less than 1.0 EU per μg by the LAL method.

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

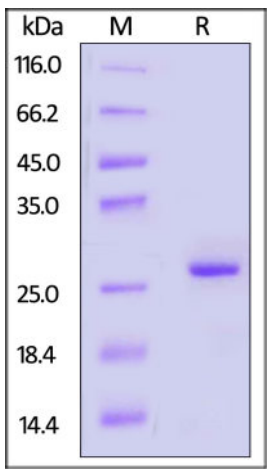
This product is supplied and shipped with blue ice, please inquire the shipping cost.

Storage

This product is stable after storage at:

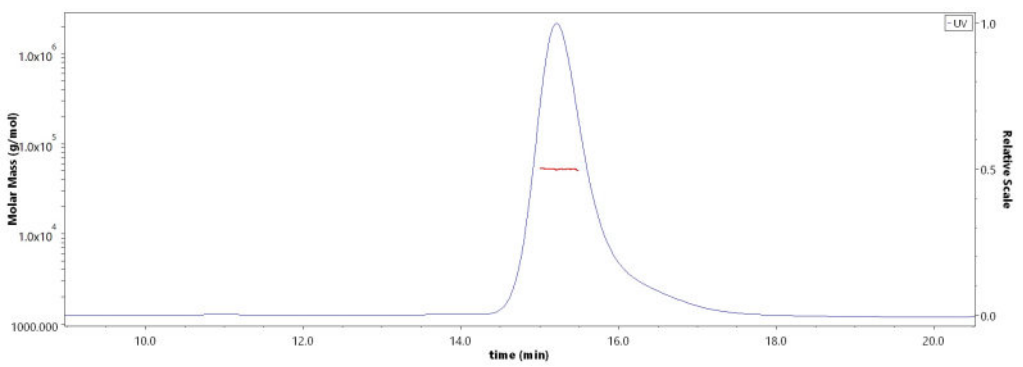
- The product MUST be stored at -20°C or lower upon receipt.
- -20°C for 6 months under sterile conditions.

SDS-PAGE



RNase III (2U/μl) on SDS-PAGE under reducing (R) condition. 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.
Report

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.