



Ver. HB221111

## Murine RNase inhibitor GMP-grade (40 U/ $\mu$ L)

### Product description

RNase inhibitor can bind RNase to form a complex, thereby specifically inactivating RNase.

This product is a recombinant mouse-derived RNase inhibitor expressed and purified in *E. coli* in a soluble form, which can inhibit various types of RNase (RNase A, B, C). Also tested by RT-PCR and RT-qPCR. Compared with human-derived RNase inhibitor, this product does not contain the two cysteines that are very sensitive to oxidation in human-derived proteins, so it has higher antioxidant activity; and it's more suitable for high-DTT sensitivity experiments (such as qPCR, etc.).

This product is produced in accordance with GMP process requirements and is provided in liquid form.

### Components

Components No.	Name	10621ES10 (10 KU)	10621ES20 (20 KU)	10621ES60 (100 KU)	10621ES99 (1 MU)
10621	Murine RNase inhibitor GMP-grade (40 U/ $\mu$ L)	250 $\mu$ L	500 $\mu$ L	2.5 mL	25 mL

### Specifications

<b>Source</b>	Recombinant <i>E. coli</i> with Murine RNase inhibitor gene
<b>Storage Buffer</b>	20 mM HepesKOH, 150 mM KCl, 8 mM DTT, 0.5% (v/v) NP 40, 0.5% (v/v) Tween20, 50% (v/v) Glycerol, pH 7.5 $\pm$ 0.2 (25°C)
<b>Unit Definition</b>	The amount of enzyme required to inhibit 50% of the activity of 5 ng RNase A is defined as 1 activity unit

### Shipping and Storage

The Murine RNase inhibitor GMP-grade products are shipped with dry ice and can be stored at -15°C ~ -25°C for one year.

### Notes

1. This product inhibits RNase activity in a wide range of pH, and exhibits maximum activity at pH 7-8.
2. Avoid foaming or vigorous stirring, vortexing and other operations to prevent the product from deactivation.
3. The product does not inhibit the activity of RNase H.
4. For your safety and health, please wear personal protective equipment (PPE), such as laboratory coats and disposable gloves, when operating with this product.