



## RNase inhibitor

### Data sheet

**Art.No. BS.QDS615S**

**Art.No. BS.QDS615L**

**2000 Units (40 Units/ µl)**

**10000 Units (40 Units/ µl)**

For *in vitro* use only

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Chargen-No.:

Best before:

Appearance:

Colour:

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Bio&SELL Lohweg 27 90537 Feucht bei Nürnberg	E-Mail: <a href="mailto:info@bio-sell.de">info@bio-sell.de</a> Internet: <a href="http://www.bio-sell.de">www.bio-sell.de</a>	Fon : +49 (0) 9128 – 724 32 32 Fax : +49 (0) 9128 – 724 32 33
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## RNase inhibitor

### Description

The Bio&SELL RNase Inhibitor specifically inhibits the activity of RNases A, B and C completely by non-covalent binding. It binds the RNases in a 1:1 ratio with an association constant of approx.  $10^{14}$  M.

It does not inhibit the RNases I, T1, T2, H, U1, U2 and CL3.

### Applications:

Inhibition of RNA degradation:

- reverse transcription - cDNA synthesis
- *in vitro* transcription & translation systems
- *in vitro* RNA synthesis
- isolation of mammalian cell fractions that contain mRNA-protein complexes
- separation and identification of specific ribonuclease activities
- studies of tumor suppression
- isolation and storage of RNA
- preparation of RNase free antibodies

### Scope of delivery

40 units/ $\mu$ l RNase inhibitor (**yellow cap**) in 20 mM HEPES-KOH (pH 7.5),  
100 mM KCl, 0.1 mM EDTA, 2 mM Dithiothreitol, 50 % [v/v] Glycerol.

### Reaction Conditions:

The Bio&SELL RNase inhibitor should be applied in a working concentration of **40 units (1  $\mu$ l) per 50  $\mu$ l reaction volume**.

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# Technical Data

### Definition of Activity Unit

One unit of the protein inhibits the activity of 5 ng RNase A by 50%.  
Inhibitor activity is assayed in: 100 mM Tris-HCl (pH 7.5), 1.2 mM EDTA, 0.1 mg/ml BSA, 100 ng/ml RNase A, 0.1 mg/ml E.coli [3H]-RNA, 50 mg/ml yeast RNA, 8 mM DTT.

### Molecular Weight

49.6 kDa monomer

**Shipment:** at room temperature

**Storage:** **-20 °C** (avoid frequent thawing and freezing)

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## RNase inhibitor

### Products for cDNA Synthesis you may also be interested in: Reverse Transcriptases

- Simple handling of the kits
- High reproducibility
- Fast protocols

For high quality cDNA perfectly fitted for further applications.

#### **SCRIPTUM-37 reverse transcriptase**

Particularly suitable for routine applications with simple templates.

Temperature optimum of this reverse transcriptase is 37 °C.

99.90 €/ 10,000 units

#### **SCRIPTUM-55 reverse transcriptase**

For simple and difficult templates.

Optimum temperature for the synthesis of longer cDNA fragments (>7kb) is 50 °C.

139.90 €/ 10,000 units

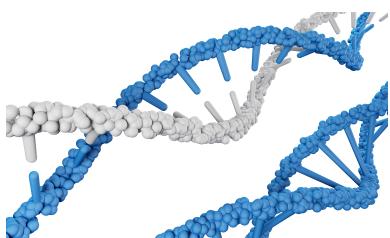
#### **SCRIPTUM-55 reverse transcriptase „improved“**

Specifically designed for difficult templates.

Increased thermal stability: working temperature up to 55 °C

Highly sensitive and highly processive!

249.90 €/ 10,000 units



#### **Bio&SELL reverse transcriptases:**

**Specific  
High cDNA yields  
Effective**

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