



**Product Insert**  
**RiboSafe RNase Inhibitor**

**Product:**  
RiboSafe RNase Inhibitor

**Catalogue Numbers:**  
BIO-65027                    2500 Units  
BIO-65028                    10,000 Units

**Features**

- Complete inhibition of RNase A, B and C
- DNase/RNase and Nickase-free
- No inhibition of polymerase/transcriptase activity
- Stable over a wide range of pH, DTT concentrations and temperatures

**Applications**

- RNA purification
- cDNA preparation by reverse transcription
- *in vitro* RNA transcription
- *in vitro* protein synthesis

**Description**

Ribonuclease Inhibitor (RiboSafe RNase Inhibitor) is a recombinant protein which inhibits different RNases (A, B, C) by binding non-covalently in a 1:1 ratio. With an association constant of  $10^{14}$ M, RiboSafe RNase Inhibitor is useful in any applications where the presence of RNases is a potential problem. RiboSafe RNase Inhibitor is tested for activity, SDS-PAGE purity, and the absence of endonucleases, nickases and exonucleases.

**Source**

*E. coli* strain carrying the gene of RiboSafe RNase Inhibitor. RNase A is not involved in the purification process.

**Typical Reaction Conditions:**

RNase Inhibitor must be used at a final concentration of between 10-40u in a 25µl reaction mix (This is dependent on the RNase contamination in the sample). For optimal RNase inhibition, a final concentration of 1mM DTT is required.

**Product Specifications**

**Batch details:**  
Batch No:                    See vial  
Units per vial:              See vial  
Concentration:               40u/µl

**Storage Conditions:**  
RiboSafe RNase Inhibitor can be stored for 6 months at -20°C. Avoid multiple freeze/thaw cycles.

**Shipping Conditions:**  
On Blue Ice

**Quality Control Tests:**  
Activity, SDS-PAGE purity, absence of endonucleases, nickases and exonucleases.

**Unit Definition:** One unit inhibits 5ng of RNase A by 50%.

**Storage Buffer:** 20mM HEPES-KOH (pH 7.6), 50mM KCl, 8mM DTT, 0.1 mM EDTA, 50% glycerol and stabilizer.

**Associated Products:**

Product Name	Pack Size	Cat No
T7 RNA Polymerase	500 Units	BIO-21055
dNTP Set	4 x 250µl	BIO-39025

**Notes**

1. This product insert is a declaration of analysis at the time of manufacture.
2. Research Use Only

**UK**  
Bioline  
16 The Edge Business Centre  
Humber Road  
London, NW2 6EW  
U.K

Tel: + 44 (0)20 8830 5300  
Fax: +44 (0)20 8452 2822

**Germany**  
Bioline GmbH  
Im Biotechnologiepark TGZ 2  
D-14943 Luckenwalde  
Germany

Tel: +49 (0)33 7168 1229  
Fax: +49 (0)33 7168 1244

email: [info@bioline.com](mailto:info@bioline.com)  
website: [www.bioline.com](http://www.bioline.com)

**USA**  
Bioline USA Inc.  
305 Constitution Dr.  
Taunton  
MA 02780  
USA

Toll Free: 888 257 5155  
Tel: 508 880 8990  
Fax: 508 880 8993

**Australia**  
Bioline (Aust) Pty Ltd  
PO Box 122  
Alexandria NSW 1435  
Australia

Tel: +61 (0)2 9209 4180  
Fax: +61 (0)2 9209 4763