

RiboSafe RNase Inhibitor

Shipping: On Dry/Blue Ice

Catalog numbers

Batch No.: See vial

BIO-65027: 2500u (40u/μl)

BIO-65028: 10,000u (40u/μl)



A Meridian Life Science® Company

Store at -20°C

Storage and stability:

The RiboSafe RNase Inhibitor is shipped on dry/blue ice. All kit components should be stored at -20°C upon receipt. Excessive freeze/thawing is not recommended.

Expiry:

When stored under the recommended conditions and handled correctly, full activity of the kit is retained until the expiry date on the outer box label.

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

Quality Control:

RiboSafe RNase Inhibitor is extensively tested for activity, SDS-PAGE purity, absence of endonucleases, nickases and exonucleases.

Safety precautions:

Please refer to the material safety data sheet for further information.

Notes:

For Research Use Only.

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.

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

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.

Associated products

Product Name	Pack size	Cat. No.
ISOLATE II Plant RNA Kit	50 Preps	BIO-52077
ISOLATE II RNA Mini Kit	50 Preps	BIO-52072

Citations:

1. Lamprecht, R.L., *et al. Eur. J. Plant Pathol.* **123**, 105–110 (2009).
2. Castro, R., *et al. Mol. Immunol.* **45(2)**, 428-437 (2008).
3. Das, B.K., *et al. Fish Shellfish Immunol.* **23(4)**, 825-830 (2007).
4. Ijdo, J.W., *et al. Infect. Immun.* **70(9)**, 5295-5298 (2002).
5. Slater, D.M., *et al. Mol. Hum. Reprod.* **5(9)**, 880-884(1999).
6. Hale, A.D., *et al. J. Virol. Meth.* **57(2)**, 195-201 (1996).

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