RNase Inhibitor (Glycerol Free)
Product Handling Guide

Shipping:	On Dry or Blue Ice
Catalog number:	MDX120
Batch No.:	See vial
Concentration:	40 u/μL

Store at –80 °C

meridian BIOSCIENCE™

Storage and stability:
RNase Inhibitor (Glycerol Free) is shipped on dry or blue ice. All kit components should be stored at -80°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 is defined as the amount of RNase Inhibitor required to inhibit by 50% the hydrolysis of cytidine 2',3´-cyclic monophosphate (2',3' cCMP) by 5 ng of RNase A.

Safety precautions:
Read and understand the SDS (Safety Data Sheets) before handling the reagents. Hardcopies of the SDS will be provided with the first shipment, thereafter they will be available upon request.

Quality Control:
Meridian operates under ISO 13485 Quality Management System. RiboSafe RNase Inhibitor (Glycerol Free) is extensively tested for activity, specific activity, SDS-PAGE purity, DNA content, bioburden, absence of endonucleases, nickases, exonucleases, and RNases.

Notes:
For research and further manufacturing use only.

Description

RNase Inhibitor (Glycerol Free) 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, RNase Inhibitor (Glycerol Free) is useful in any applications where the presence of RNases is a potential problem. The glycerol-free formulation ensures the compatibility of RNase Inhibitor (Glycerol Free) to lyophilized formats.

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

Application

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

Source

E. coli strain carrying the gene of RNase Inhibitor (Glycerol Free). RNase A is not involved in the purification process.

Typical Reaction Conditions

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

Associated products

Products Name	Cat. No.
Lyo-Compatible MMLV-RT	MDX042
5C MMLV-RT	MDX117
Lyo-Ready™ 1-Step RT-qPCR Buffer	MDX052
High Conc. Glycerol-Free Bst	MDX018

Technical Support

For any technical enquiries, please contact our Technical Support team via email at: mbi.tech@meridianlifescience.com

Meridian Life Science Inc.
USA

Tel: +1 901 382 8716
Fax: +1 901 382 0027