BIOTOOLS
BIOTOOLS B&M LABS.S.A.

C/ Valle de Tobalina, 52 - Nave 39 E-28021 Madrid (Spain)
Tel: (34) 91 710 00 74   Fax: (34) 91 505 31 18
e-mail: info@biotools.eu   www.biotools.eu

HIGH RNase INHIBITOR (40 U/µl)

STORE AT -20ºC

Description

High RNase Inhibitor inhibits, by binding in a potent non-competitive inhibitor of a wide spectrum of RNases, including RNase A, RNase B and RNase C. It is a recombinant mammalian protein, manufactures in *E. coli,* with a monomeric structure of 49.6 kDa.

Applications

The inhibitor protects RNA in the following applications:

- First strand cDNA synthesis
- RNA amplification
- RNA purification and storage
- *In vitro* transcription
- *In vitro* translation
- Separation and identification of specific ribonuclease activities
- Removal of gDNA from RNA preparations
- Synthesis of RNA probes
- Synthesis of cDNA probes

Storage conditions

High RNase Inhibitor can be store at - 20°C in a constant temperature freezer through the expiration date printed on the label.

Avoid exposure to frequent temperature changes. For frequent use divide the product in aliquots to avoid multiple freeze-thaw cycles.

Activity Unit

One unit of the High RNase Inhibitor inhibits 5 ng of RNase A by 50%.

Activation-inactivation

The High RNase Inhibitor protects RNA from degradation at temperatures ≤ 55 °C.

This product is inactivated by heating at 75 °C for 10 minutes. Common denaturants and oxidizing (eg. SDS, urea) strongly inhibit the High RNase Inhibitor and release the RNase bound.

Storage buffer

The protein is supplied at a concentration of **40 U/µl** in storage buffer: 20 mM HEPES-NaOH (pH 7.5); 50 mM NaCl; 8 mM DTT; 0.03 % (v/v) ELUGENT^{TM} Detergent; and 50% (v/v) glycerol.

Recommended concentration

The working concentration of High RNase Inhibitor for different applications is **1U/µl** in reaction mixtures.

Ordering information

Ref.	Format	Product
20.049	1000 U	High RNase Inhibitor (40 U/µl)