

Manual

RNase inhibitor

Inhibits the activity of RNase A, B and C. Concentration 40 U/ μ l.

catalog #	size
037-25	2500 U
037-100	4 x 2500 U
037-1000	24 x 2500 U

For research use only.

Guarantee

A&A Biotechnology provides guarantee on this product.

The company does not guarantee correct performance of this kit in the event of:

- not adhering to the supplied protocol
- use of not recommended equipment or materials
- use of other reagents than recommended or which are not a component of the product
- use of expired or improperly stored product or its components

Description

Activity of ribonucleases A, B and C is inhibited by strong, specific binding of **RNAse inhibitor**. Enzyme is purified from *E.coli* strain carrying a plasmid with a cloned gene encoding of mammal RNAse inhibitor.

Application

- inhibition of RNA degradation, protection of RNA in reaction: *in vitro* translation, *in vitro* transcription, synthesis of cDNA
- RNA amplification
- RNA purification and storage
- separation and identification of particular ribonuclease activities

Contents

	037-25	037-100	037-1000	storage
RNAse inhibitor	2500 U	4 x 2500 U	24 x 2500 U	-20 °C
storage buffer: 20 mM HEPES-NaOH, pH 7.5, 50 mM NaCl, 8 mM DTT, 50% glycerol (v/v)				

Unit definition

1 U of RNase inhibitor is defined as an amount of enzyme that blocks 50% activity of 5 ng of RNase A.

Test was performed in a buffer: 100 mM Tris-HCl, pH 7.5, 1 mM EDTA, 0.1 mg/ml BSA, 100 ng/ml RNase A, 0.1 mg/ml RNA, 8 mM DTT.

Inhibition: denaturing substances (e.g. SDS, urea, strong oxidants).

Enzyme inactivation: 10 min at 75 °C.

Application

We recommend using RNase inhibitor at final concentration of 1 U/ μ l in a reaction mixture.



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