

RNAsin (RNase inhibitor)

 Cat: PE313
 Size: 5 x 1000 Units

 Conc. 40 units/μl
 Store at -20°C.

Description

RNasin is a ribonuclease inhibitor extracted from human placenta with a molecular weight 51kDa. It inhibits the activity of RNase by specially binding up to RNase with a non-covalent bond. RNasin, free of RNase or Nickase, can maintain its activity at pH from 5 to 8, and the highest one at pH7.8. The concentration of RNasin is 40units/µl.

Usage Recommendation

Always avoid multiple freeze-thaw cycles or exposure to frequent temperature changes. These fluctuations can greatly alter products stability.

Storage Buffer

20mM Hepes-KOH, pH 7.6, 50mM KCI, 8mM DTT and 50% glycerol

Unit Definition

One unit is defined as the amount of RNasin Ribonuclease Inhibitor required to inhibit by 50% the activity of 5ng of ribonuclease A.

Frist-strand cDNA synthesis (20 μ l reaction volume) step1

Total RNA or Poly(A)[†]RNA 1 µg total RNA or 5~100 ng Poly(A)[†]RNA

Oligo dT or N₉ 10~100pmoles

DEPC water (RNase and DNase-free) variable volume

Denature RNA and primer for 5 min at $70^{\circ}\text{C},$ and immediately cool on ice.

step2

5×M-MLV RTase reaction buffer	4 µl
100 mM DTT	2 µl
dNTP (10 Mm each)	1 µl
RNase inhibitor	20 units
M-MLV RTase	200 units
Total (Step1+Step2)	20 μΙ

cDNA synthesis for 1 hr at 37~42°C

Accessory Products

The following products are available separately from Genbiotech.

Product	Quantity	Catalog no.
MMLV Reverse Transcriptase	10000 U	ME2305
AMV Reverse Transcriptase	500 U	FAM500
Oligo dT celullose	250 mg	FOT250
DEPC	10 ml	FDP100
TRIreagent®	100 ml	TR118100
TRIreagent® LS (liquid samples)	100 ml	TR120100
Random primers	0.5 OD	RAN6