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RNase inhibitor

Mus musculus, recombinant

Cat. Nº.	Amount
□ PCK-122XS	2.500 units
□ PCK-122S	5.000 units
PCK-122M	2 x 5.000 units
D PCK-122L	4 x 5.000 units

Unit Definition: One unit of the protein inhibits the activity of 5 ng RNase A by 50 %. Inhibitor activity is assayed in: 100 mM Tris HCl (pH 7.5), 1.2 mM EDTA, 0.1 mg/ml BSA, 100 ng/ml RNase A, 0.1 mg/ml E.coli [3H]-RNA, 50 mg/ml yeast RNA and 8 mM DTT.

Storage buffer: 40 mM HEPES-KOH pH 7,5; 100 mM KCl; 8 mM DTT e 50% Glicerol.

Concentration:

40 units/µL

For in vitro use only!

Shipping: Shipped on blue ice

Storage Conditions: Store at -20 °C

Additional Storage Conditions: avoid freeze/thaw cycles.

Shelf Life: 12 months

Description:

Rnase inhibitor is a recombinant protein which completely inhibits a broad spectrum of eukaryotic RNases, including RNase A, B and C. It inhibits Rnases by binding noncovalently in a 1:1 ratio with high affinity (4 x 10^{-14} M). It does not inhibit the RNases I, T1, T2, H, U1, U2 and Cl3. In addition, RNase inhibitor shows no inhibition of polymerase or reverse transcriptase activity and so can be used for cDNA synthesis and in one-step RT-PCR reactions. The murine version of RNase inhibitor lacks the pair of cysteines identified in human version, therefore it has significantly improved resistance to oxidation. Nuclease, DNAse and RNAse free.

Applications:

RNase inhibitor should be applied in a working concentration of 40 units (1 µL) per 50 µL reaction volume. The application of RNase inhibitor is recommended for:

- cDNA synthesis / RT-PCR
- In vitro transcription/translation
- RNA purification
- RNA protection assays
- Separation and identification of specific ribonuclease activities
- Other applications where the integrity of RNA is essential

