

RNase Inhibitor

from human placenta

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Product	Cat#	Package size
RNase Inhibitor for reversible inhibition of RNase	M3034.0500	500 units
RNase Inhibitor for reversible inhibition of RNase	M3034.2000	2000 units
RNase Inhibitor for reversible inhibition of RNase	M3034.1010	10000 units

Description:	<p>Ribonuclease Inhibitor has a broad spectrum of RNases to be inhibited. Native RNase-Inhibitor from human placenta exerts its inhibitory effect by binding non-covalently to RNases in a 1:1 ratio with an association constant of 10¹⁴. The Inhibitor is purified by HPLC methods. It is a protein with molecular weight of 51 kDa and inhibits common eukaryotic RNases including RNase A, RNase B, RNase C.</p> <p>It does not inhibit RNase H, S1 Nuclease, SP6, T7 or T3 RNA polymerase, AMV or M-MuLV Reverse Transcriptase, Taq DNA Polymerase and RNase T1.</p> <p>The enzyme is active over a broad pH range between 5 and 8, with a maximum activity at pH 7 - 8.</p>
Concentration:	5-40 units/μL.
Unit Definition:	One unit is defined as the amount of Rnase Inhibitor to inhibit 5ng of RNase A by 50% using cytidine 2',3'-cyclic monophosphate (cCMP) as a substrate.
Assay conditions:	20mM Tris-HCl (pH8.0 at 25°C), 2mM MnCl ₂ , 100mM KCl, 1mM DTT, 0.6mM poly(rA), 0.1mM poly(dT) 10-20, 0.5mM dTTP(3H), 0.5-5 units of enzyme.
Quality Control:	Quality controlled by activity, SDS-PAGE purity and absence of endonucleases/nickases and exonucleases.
Storage buffer:	20 mM Hepes/KOH (pH7.6), 50mM KCl, 8mM DTT, 50% glycerol.
Storage:	Storage at -20°C is recommended.
Application:	Any application where eukaryontic RNase contamination is a potential problem.
Reference:	Blackburn, P. (1979) J. Biol. Chem. 254, 12484

Related Products

Product	Cat#	Package size
Tth DNA Polymerase (RNase H minus)	M3005	250, 500, 2500 units