



Genaxxon BioScience

RNase Inhibitor

from human placenta

fon:
+49 (0)7357 - 91 63 77
fax:
+49 (0)7357 - 91 63 78
eMail:
info@genaxxon.com
internet:
www.genaxxon.com

Product	Cat#	Package size
RNase Inhibitor for reversible inhibition of RNase	M3034.0500	500 units
RNase Inhibitor for reversible inhibition of RNase	M3034.1000	1000 units
RNase Inhibitor for reversible inhibition of RNase	M3034.5000	5000 units

Description:	<p>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. 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 units/μl .
Unit Definition:	One unit inhibits 5 ng of RNase A by 50% using cytidine 2',3'-cyclic monophosphate (cCMP) as a substrate.
Assay conditions:	20 mM Tris-HCl (pH 8.0 at 25°C), 2 mM MnCl ₂ , 100 mM KCl, 1 mM DTT, 0.6 mM poly(rA), 0.1 mM poly(dT) 10-20, 0.5 mM 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, 50 mM KCl, 8 mM DTT, 50% glycerol.
Storage:	Storage at -20°C is recommended.
Application:	Any application where eukaryotic RNase contamination is a potential problem.
Reference:	Blackburn, P. (1979) J. Biol. Chem. 254, 12484

Related Products

Product	Cat#	Package size
M-MuLV Reverse Transcriptase (RNase H minus)	M3094	10000, 50000 units
AMV Reverse Transcriptase (RNase H active)	M3012	500, 1000, 5000 units
Tth DNA Polymerase (RNase H minus)	M3005	250, 500, 2500 units