

RNase Inhibitor, Mammalian (200,000 U/mL)

Product Information

Cat#	DIA-477
Description	A 50 kDa protein that binds RNase A, B, and C at a 1:1 ratio, effectively inhibiting their activity with a binding constant $>10^{14}$. Does not inhibit RNase 1, T1, S1, RNase H, or fungal RNases. Compatible with polymerases such as Taq, AMV, M-MuLV, and phage RNA polymerases (SP6, T7, T3). A high-concentration format suitable for lyophilization. Can be diluted with glycerol-free buffer for use in freeze-dried reactions.
Applications	RNA extraction and purification: protects RNA from degradation and improves yield; reverse transcription: enhances stability and efficiency of cDNA synthesis; qPCR and RT-PCR: preserves RNA integrity for reliable results; in vitro transcription: prevents RNA degradation and ensures high-quality RNA; single-nucleus isolation: protects nuclear RNA and improves data quality.
Product Overview	Product Components: RNase Inhibitor, Mammalian (200,000 U/mL): 4000 U–20 μL; 100000 U–100 μL 1x RI Dilution Buffer, Glycerol-free: 1 mL Product Features: Superior inhibitory activity: broadly suppresses RNase A, B, and C to preserve RNA integrity Polymerase-compatible: does not inhibit Taq DNA polymerase, AMV/M-MuLV reverse transcriptases, or phage RNA polymerases (SP6, T7, T3) High purity and stability
Package	4000/10000 U