

Recombinant RNase Inhibitor (Murine, glycerol-free)

Product Information

Cat#	DIA-478
Source	E. coli
Description	Expressed in E. coli, ca. 50 kDa. Specifically inhibits RNase A, B, and C by forming 1:1 complexes, reversible by urea or thiol reagents. Superior antioxidant activity compared to human RNase inhibitor, suitable for experiments sensitive to DTT. Glycerol-free, lyophilization compatible.
Unit Definition	One unit (U) is defined as the amount of enzyme required to inhibit 50% of the activity of 5 ng RNase A. (RNase A activity is quantified by the inhibition of cyclic 2',3'-CMP hydrolysis to 3'-CMP.)
pH Stability	5.0–9.0
Optimum pH	7.0–8.0
Thermal stability	Below 65°C
Applications	Suitable for any experiment requiring RNase-free conditions to prevent RNA degradation, such as cDNA synthesis, in vitro translation, polysome isolation, and cell-free transcription.
Product Overview	Product Components: 3 KU: 40 U/μL – 75 μL 15 KU: 40 U/μL – 375 μL 2 KU: 200 U/μL – 10 μL
Molecular Weight	50 kD
Package	3/15/2 KU