

## Product Datasheet

### RNase Inhibitor - glycerol-free (orb1821438)

<b>Description</b>	RNase inhibitor-glycerol-free is recommended for use in freeze drying applications where glycerol must be avoided. 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 ( $4 \times 10^{-14}M$ ). It does not inhibit the RNases I, T1, T2, H, U1, U2 and C13. 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.
<b>Form/Appearance</b>	liquid
<b>Concentration</b>	40 units/ $\mu$ l
<b>Storage</b>	store at -80 °C storage at -20 °C for 6 months possible. avoid freeze/thaw cycles
<b>Note</b>	For research use only
<b>Application notes</b>	RNase inhibitor should be applied in a working concentration of 40 units (1 $\mu$ l) per 50 $\mu$ l reaction volume. The application of RNase in-hibitor 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.
<b>Clonality</b>	Recombinant
<b>Expiration Date</b>	12 months from date of receipt.

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