



Applied Biological Materials Inc

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RNaseOFF Ribonuclease Inhibitor

Store at -20°C

Cat. No.	Description	Conc.	Quantity
G138	RNaseOFF Ribonuclease Inhibitor	40 U/μl	4000 U (100 μl)

Product Description

RNaseOFF Ribonuclease Inhibitor specifically inhibits common ribonucleases (RNases), including RNase A, B and C, with high affinity. This enzyme is a useful additive in PCR or RT-PCR as it safe-guards RNA against potential RNase contamination without inhibiting polymerase activity. This robust version of RNase inhibitor has improved resistance to oxidation over the highly oxidation-sensitive human RNase inhibitor. RNaseOFF Ribonuclease Inhibitor is stable even under very low concentrations of DTT (< 1 mM), making it the best choice for ultimate RNA protection.

Product Applications

- Protection of RNA during:
 - RT-PCR
 - Quantitative, real-time RT-PCR
 - cDNA synthesis
 - *In vitro* transcription, translation and coupled transcription/translation
 - RNA Isolation
- Preparation of RNase-free antibodies
- Contamination-sensitive experiments

Product Source

Recombinant *E. coli*.

Enzyme Storage Buffer

20 mM HEPES-KOH (pH 7.5), 8 mM DTT, 50 mM KCl, and 50% (v/v) Glycerol.

Enzyme Unit Definition

One unit is defined as the amount of RNaseOFF Ribonuclease Inhibitor that is required to inhibit the activity of 5 ng of RNase A by 50%.

Storage Conditions

Store all components at -20°C. Avoid repeated freeze-thaw cycles of all components to retain maximum performance. All components are stable for one year from the date of shipping when stored and handled properly.

Reaction Conditions

RNaseOFF should be added to the tube prior to the addition of other components (including the sample) to ensure that RNase inhibitory activity. Prevent inactivation of the RNaseOFF and release of active ribonuclease by avoiding temperatures greater than 50°C and high concentrations of urea or other denaturing agents. Always keep RNaseOFF on ice during reaction set-up.

*For laboratory research only. Not for clinical applications.
For technical questions, please email us at technical@abmgood.com
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