RNaseOFF Ribonuclease Inhibitor

Cat. No. G138S, G138, G591

Store at -20°C.

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 compared to the high oxidation-sensitive human RNase inhibitor. RNaseOFF is stable even under very low concentrations of DTT (< 1 mM), making it the best choice for ultimate RNA protection.

Cat. No.	Product	Quantity
G138S	RNaseOFF Ribonuclease Inhibitor	800 U (20 µl)
G138	RNaseOFF Ribonuclease Inhibitor	4,000 U (100 µl)
G591	RNaseOFF Ribonuclease Inhibitor	100,000 U (2 x 1.25 ml)

Product Source

Recombinant *E. coli*.

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%.

Protocol

Always keep RNaseOFF on ice during reaction set-up. It is recommended to set-up all RNA related or RNase-sensitive work under conditions where RNase contamination has been eliminated. The use of "clean" pipettors designated for PCR and aerosol-resistant barrier tips are recommended.

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