

MicroRNA Inhibitor Negative Control

Cat. No.:	HY-RI04602	
Molecular Weight:	6953.56	
Target:	MicroRNA	
Pathway:	Epigenetics	MicroRNA Inhibitor Negative Control-1
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	

BIOLOGICAL ACTIVITY

Description	MicroRNA Inhibitor Negative Control is a full-length nucleotide 2'-methoxy modified oligonucleotide, and can be used as a negative control.
In Vitro	<p>1. miRNA Resuspension</p> <p>1.1 Briefly centrifuge the tube to ensure that the dried miRNA is at the bottom of the tube.</p> <p>1.2 Resuspend the miRNA using nuclease free water to generate 20 µM stock solution.</p> <p>For 5 nmol miRNA: add 250 µL nuclease free water.</p> <p>For 20 nmol miRNA: add 1000 µL nuclease free water.</p> <p>1.3 Aliquot miRNAs into one or more tubes to limit the number of freeze-thaw cycles (<5).</p> <p>1.4 Store at or below -20°C or -80°C in a non-frost-free freezer until use.</p> <p>2. Prepare cells</p> <p>2.1 Inoculate cells in advance for cell transfection.</p> <p>Note: The viability and general health of cells prior to transfection significantly affect transfection result.</p> <p>3. Transfection</p> <p>3.1 Prepare transfection mix A and B.</p> <p>For per well of a 6-well plate: A: 120 µL serum-free medium + 5 µL miRNA inhibitors; B: 121 µL serum-free medium + 4 µL PolyFast Transfection Reagent (HY-K1014).</p> <p>For per well of a 24-well plate: A: 23.75 µL serum-free medium + 1.25 µL miRNA inhibitors; B: 24 µL serum-free medium + 1 µL PolyFast Transfection Reagent (HY-K1014).</p> <p>For per well of a 96-well plate: A: 4.75 µL serum-free medium + 0.25 µL miRNA inhibitors; B: 4.8 µL serum-free medium + 0.2 µL PolyFast Transfection Reagent (HY-K1014).</p> <p>Note: The recommended working concentration is 100nM for miRNA inhibitors. miRNA function can vary greatly, depending</p>

on the miRNA, the cell line, and the chosen analysis method. To determine the concentration that provides optimal results, optimization experiments using varying mimic/inhibitor concentrations should be performed. The optimized range suggests changing the miRNA concentration in the range of 20 to 500nM.

If other transfection reagents are used, the amount of transfection reagent needs to be adjusted according to the specific situation.

3.2 Mix the diluted PolyFast Transfection Reagent and miRNA gently. Incubate at room temperature for 15 minutes.

3.3 Remove culture medium from cells, wash with PBS.

3.4 Add transfection mix (A+B) to cells.

For per well of a 6-well plate: add 1750 μ L fresh medium without Pen/Strep, then add 250 μ L of the transfection mix (A+B) to the well, and mix well.

For per well of a 24-well plate: add 450 μ L fresh medium without Pen/Strep, then add 50 μ L of the transfection mix (A+B) to the well, and mix well.

For per well of a 96-well plate: add 90 μ L fresh medium without Pen/Strep, then add 10 μ L of the transfection mix (A+B) to the well, and mix well.

3.5 Incubate cells for 1–3 days at 37°C. Then, analyze transfected cells. The medium can be replaced with fresh serum-containing medium after 6 hours if necessary.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Caution: Product has not been fully validated for medical applications. For research use only.

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