RedChemExpress

Product Data Sheet

Inhibitors • Screening Libraries • Proteins

mmu-miR-7214-3p inhibitor

Cat. No.:	HY-RI03965
Molecular Weight:	7420.91
Target:	MicroRNA
Pathway:	Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY	
Description mmu-miR-7214-3p inhibitors are chemicall inhibitors have full-length nucleotide 2'-me	y-modified oligonucleotides that hybridize with mature miRNAs. The miRNA ethoxy modification. The miRNA inhibitors strongly compete with mature miRNAs niRNAs and their target genes, thereby inhibiting miRNAs from functioning.
 1.2 Resuspend the miRNA using nuclease free For 5 nmol miRNA: add 250 μL nuclease free For 20 nmol miRNA: add 1000 μL nuclease free 1.3 Aliquot miRNAs into one or more tubes 1.4 Store at or below -20°C or -80°C in a nor 2. Prepare cells 2.1 Inoculate cells in advance for cell transfe Note: The viability and general health of ce 3. Transfection 3.1 Prepare transfection mix A and B. For per well of a 6-well plate: A: 120 μL serue PolyFast Transfection Reagent (HY-K1014). For per well of a 24-well plate: A: 23.75 μL serue PolyFast Transfection Reagent (HY-K1014). 	e water. free water. to limit the number of freeze-thaw cycles (<5). h-frost-free freezer until use. fection. Ils prior to transfection significantly affect transfection result. um-free medium + 5 μL miRNA inhibitors; B: 121 μL serum-free medium + 4 μL erum-free medium + 1.25 μL miRNA inhibitors; B: 24 μL serum-free medium + 1 μL rum-free medium + 0.25 μL miRNA inhibitors; B: 4.8 μL serum-free medium + 0.2 μ

Note: The recommended working concentration is 100nM for miRNA inhibitors. miRNA function can vary greatly, depending 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 serumcontaining 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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