IDT[®] miRNA Inhibitors

- 1. Centrifuge tubes before opening to ensure miRNA Inhibitor is at the bottom of the tube.
- 2. Resuspend miRNA Inhibitor in the appropriate volume of IDTE buffer, pH 8 (Cat # 11-01-02-05) or TE buffer to obtain the desired concentration. For example:

Product	Volume for 100 µM*
IDT miRNA Inhibitor, 5 nmol	50 µL
IDT miRNA Inhibitor, 20 nmol	200 µL
* Evolutions of UDT wiDNA lobitizes and he was devoided UDTE, all 0 as TE hoffer	

* Further dilutions of IDT miRNA Inhibitors can be made using IDTE, pH 8 or TE buffer.

3. Store resuspended IDT miRNA Inhibitors at -20°C for up to 24 months.

Note: see next page for transfection tips.



resuspension protocol

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Tips for transfection of IDT miRNA Inhibitors into cultured cells

Successful miRNA modulation experiments require very high transfection efficiency of the miRNA inhibitors into cells:

- Typically, use methods similar to those designed for siRNA transfection (e.g., cationic lipids or electroporation). We routinely use Lipofectamine[®] 2000 (Thermo Fisher) in established cell lines, because it works well in a variety of cell lines.
- Perform preliminary experiments to optimize transfection conditions for primary or difficult-to-transfect cells.

Because miRNA function is based on recognition of a seed region rather than complete homology between miRNA and target, a single miRNA can regulate tens to hundreds of genes whose sequences do not share exact complementarity with the miRNA. Therefore, inhibition of a single miRNA will affect the expression of many genes. To ensure specificity, we recommend the following:

- Test the cells with various miRNA Inhibitors.
- Use the lowest possible amount of miRNA Inhibitors that results in the desired phenotype.

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