

[Cat. No.] Please refer to the Online Resources

Introduction

BIONEER's *AccuTarget™* miRNA Mimics are chemically synthesized double-stranded RNA oligonucleotides and are available for 875 human mature miRNAs in the miRBase Sequence Database. *AccuTarget™* miRNA Inhibitors are the single-stranded synthetic inhibitor targeting all human miRNAs in the miRBase Sequence Database. These miRNA mimics & inhibitors are available at 5, 10, and 20 nmol guaranteed yield. We also offer miRNA mimics and inhibitors library sets consisting of predesigned mimics or inhibitors at various small scaled (0.25, 0.5, 1, or 2 nmol) in a 96-well plate layout to meet the needs of individual customers. In addition, flexible miRNA library sets for customer-specified mimics & inhibitors are also available for the minimum order of 48 ea.

Features & Benefits

- Ready-to-transfect miRNA mimics: Same activity as the endogenous miRNA actually present in the cell after transfection.
- Wide application: miRNA inhibitors for studying the loss-of-function of miRNAs by inhibiting the activity of target miRNAs.

Specifications

- miRNA mimics and inhibitors can be ordered from the following: 5, 10, or 20 nmol guaranteed yields.
- A library set composed of predesigned miRNA mimics or inhibitors of various sizes (0.25, 0.5, 1, 2 nmol) is provided on a 96-well plate.
- For customers buying 48 or more orders, flexible miRNA library sets can be purchased.
- All miRNA mimics are provided in the form of double-stranded siRNA.
- All miRNA inhibitors are provided in the form of single-stranded miRNA, being an anti-sense strand to the target miRNA.
- An economical choice for a guaranteed high quality of miRNA mimics and inhibitors with the use of automated HPLC and Bio-RP purification.

Quality Control

- All the sense and anti-sense miRNAs are inspected with MALDI-TOF analysis and annealed double-stranded miRNA is analyzed by non-denaturing PAGE to confirm proper annealing.

Storage

Store at -20°C. If stored in the recommended temperature, this product will be stable until the expiration date printed out on the label.

Precautions

- Wear gloves and a mask when handling *AccuTarget™* miRNAs mimics and inhibitors.
- Always use RNase free tubes and pipette tips.
- Only use DEPC-D.W. (or RNase free water) when diluting *AccuTarget™* miRNA Mimics and Inhibitors.

Online Resources



Korean



English

Visit our **product page** for additional information and protocols.

Notice

BIONEER corporation reserves the right to make corrections, modifications, improvements and other changes to its products, services, specifications or product descriptions at any time without notice.

Explanation of Symbols



Caution



Consult
Instructions
For Use




Do not
Re-use



Use-by
Date

Experimental Procedures

Steps		Procedure Details																	
1	 <p>Resuspension of miRNA</p>	<ol style="list-style-type: none"> Briefly centrifuge tubes (or multi-well plates) containing miRNA mimics or inhibitors to ensure that the miRNA pellet is located at the bottom of the tube. Dissolve miRNAs to a convenient stock concentration using the recommended volume of DEPC-D.W. (or RNase-free water) shown in Table 1. Mix the miRNAs by pipetting or vortexing briefly and spin down. Store at -20°C in small aliquots and avoid repeated freeze and thaw cycles. 																	
		<table border="1"> <thead> <tr> <th rowspan="2">Amount of miRNA (nmol)</th> <th colspan="2">Volume of DEPC-D.W. for desired final concentration</th> </tr> <tr> <th>100 µM stock</th> <th>20 µM stock</th> </tr> </thead> <tbody> <tr> <td>1.0</td> <td>10 (µl)</td> <td>50 (µl)</td> </tr> <tr> <td>5.0</td> <td>50 (µl)</td> <td>250 (µl)</td> </tr> <tr> <td>10.0</td> <td>100 (µl)</td> <td>500 (µl)</td> </tr> <tr> <td>20.0</td> <td>200 (µl)</td> <td>1000 (µl)</td> </tr> </tbody> </table> <p>Table 1. Recommended volumes and concentrations for miRNA resuspension.</p>			Amount of miRNA (nmol)	Volume of DEPC-D.W. for desired final concentration		100 µM stock	20 µM stock	1.0	10 (µl)	50 (µl)	5.0	50 (µl)	250 (µl)	10.0	100 (µl)	500 (µl)	20.0
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<p>Recommendation for Transfection</p> <ul style="list-style-type: none"> We recommend using Lipofectamine® RNAiMAX (Thermo Fisher) to transfect our miRNA. For detailed transfection protocols, please refer to the manufacturer's instructions. 																			