GO BEYOND RNA
ARRAYSTAR INC

Arraystar Small RNA Modification Arrays

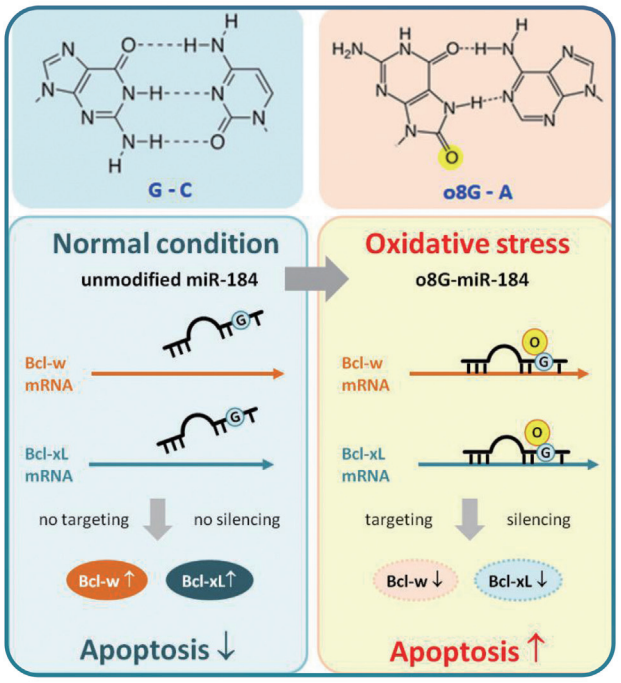
Quantifying Modifications in Small RNAs with High Sensitivity & Accuracy

- o8G/m7G/m6A/Ψ/m5C in miRNAs, pre-miRNAs & tsRNAs

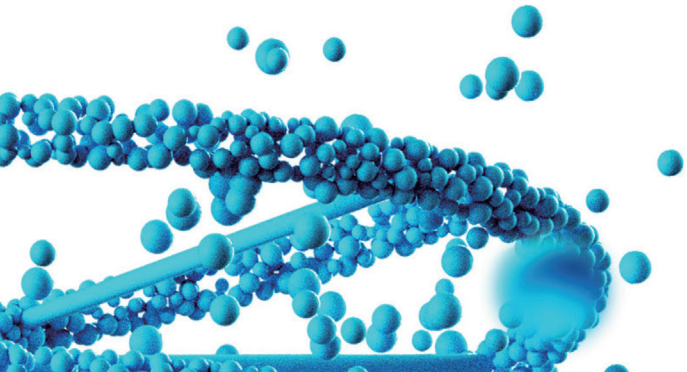
Why Study Small RNA Modifications?

Small RNA modifications modulate the activities of small RNAs in diverse biological processes and play pivotal roles in pathological conditions. They can:

- Influence miRNA targeting
- Inhibit protein translation
- Serve as biomarkers

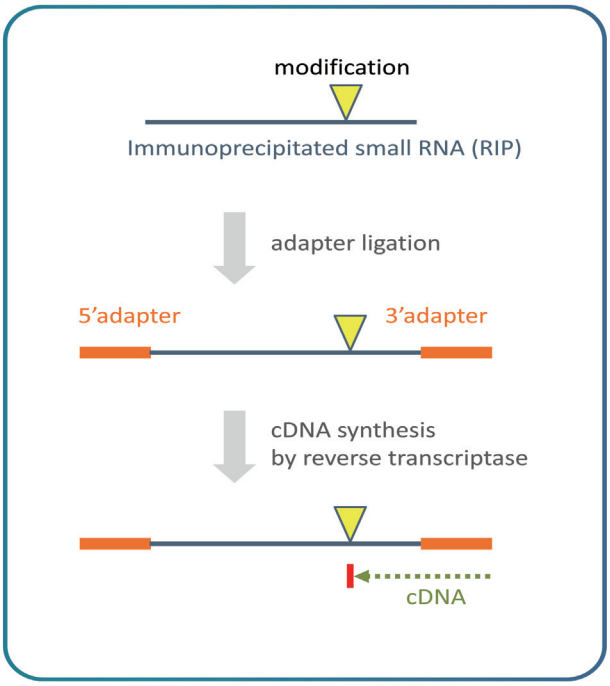


Oxidative modification of miR-184 enables it to target Bcl-xL and Bcl-w, based on Wang, J. X., et al. (2015) Mol Cell [PMID: 26028536]



Challenges to Quantify Small RNA Modifications Accurately

During small RNA MeRIP-sequencing library construction, the cDNA synthesis step is blocked by RNA modifications. It severely reduces the sequencing coverage and quantification accuracy.



Non-Sequencing Based Solution: Small RNA Modification Arrays

- Gold standard for accurate quantification of modified small RNAs.
- One step direct labeling that eliminates the problems of RNA modifications blocking cDNA synthesis during RNA-seq library prep.
- No PCR to distort native RNA levels.
- Low sample amount requirements.
- Array coverage of multiple small RNA classes, including miRNAs, pre-miRNAs, and tsRNAs.

Stability is Key

Stabilization of Intracellular RNA in Frozen blood for 11 years

No compromise in RNA Integrity Quality Yield

Learn More

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horizon
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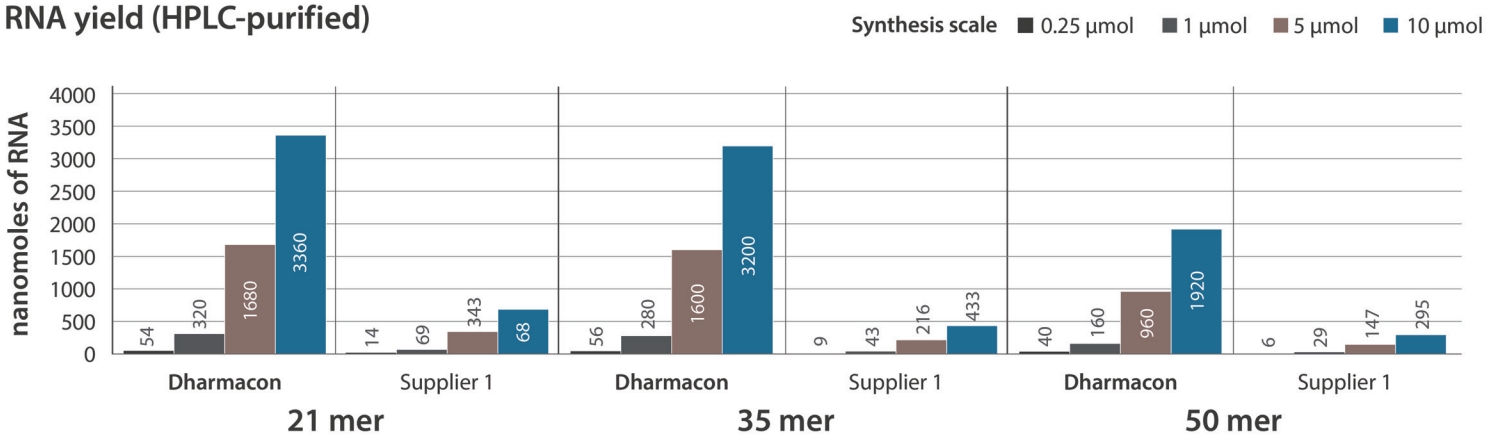
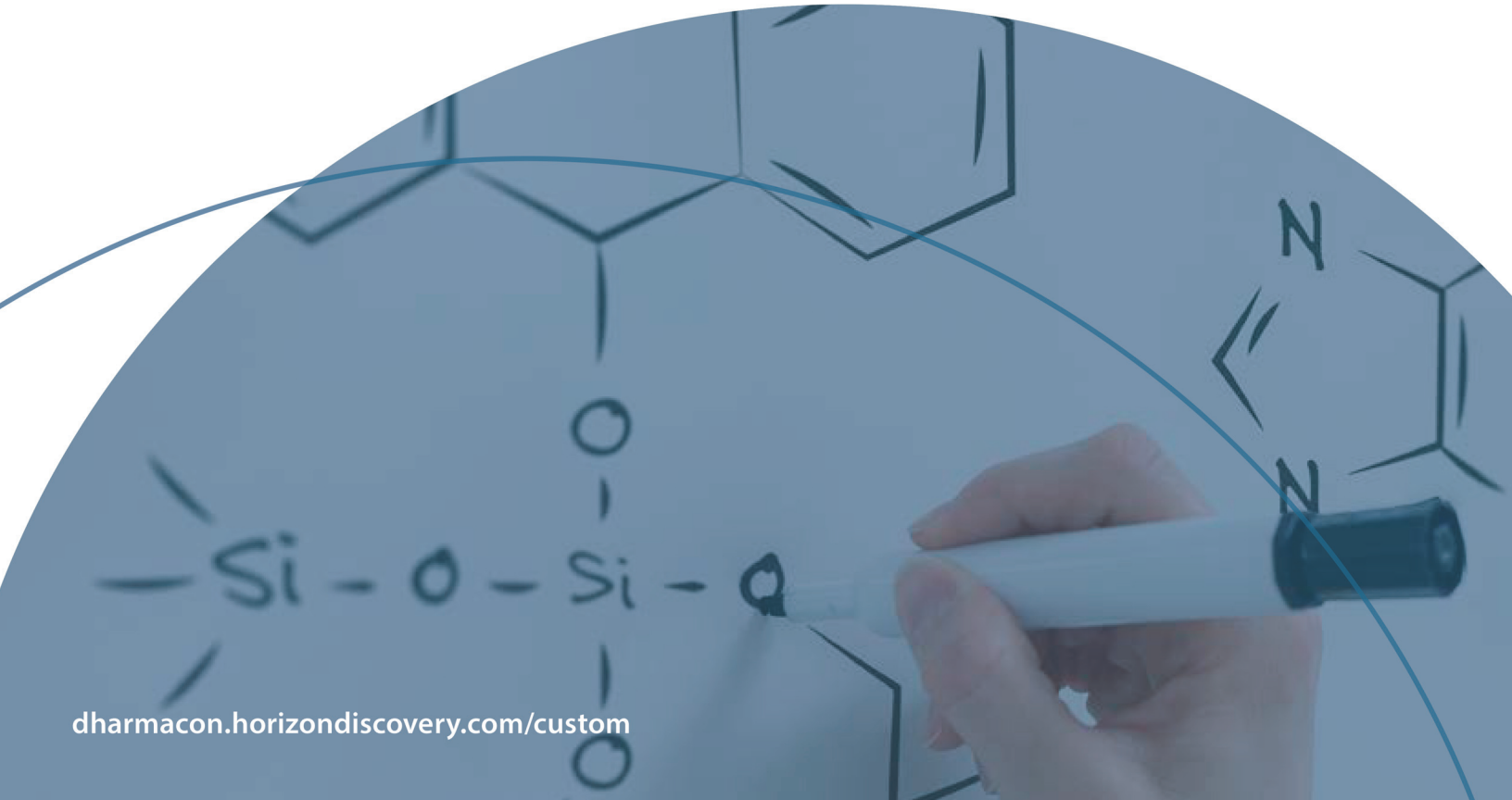
If your NMR, crystallography, or RNA binding study requires a non-standard chemical modification or a commercially unavailable modified nucleobase, we can help. For more than 20 years our chemists have utilized Dharmacon™ proprietary 2' ACE chemistry to synthesize RNA with superior yield and quality giving you the flexibility you need.

Better RNA yields give you more for your money.

RNA yield (HPLC-purified)



The yield for RNA oligos of three different lengths was compared for all available synthesis scales between Dharmacon and a competitor.



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Designed Around User Experience for Self-Collection

Sample collection devices for **simple, non-invasive at-home testing**. The patented SafeCollect™ tube features a safety seal that prevents users from spilling, ingesting, or being exposed to the stabilization solution. A unique safety seal is punctured after adding a sample to the tube, releasing the stabilization solution.

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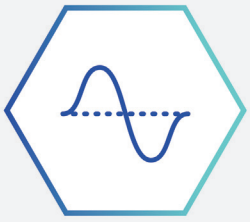
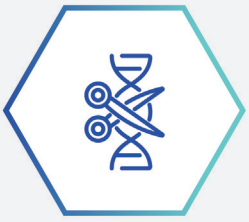
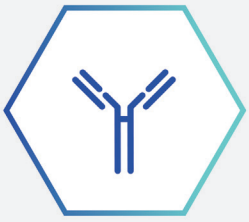


Transfection efficiency



Genome editing, including Cas9



Antigen expression modeling

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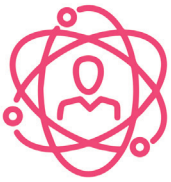

Comprehensive Services

End to end services from sample isolation to bioinformatics, from discovery to validation

1. SS 656:2020 Singapore Standard, Design, Development and Validation of miRNA-based diagnostics. Enterprise Singapore.

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