

Datasheet for KNA-201**ModDetect® 2'-O-Methoxyethyl (2'MOE) Biotinylated Panel****Overview**

Description:	ModDetect® 2'-O-Methoxyethyl (2'MOE) Biotinylated Panel - KNA-201
Item No.:	KNA-201
Size:	1 Set

Product Details

Synonyms:	2'-O-Methoxyethyl, 2'MOE, ASO, anti-sense oligonucleotide, Biotinylated 2'-O-Methoxyethyl
Conjugate:	Biotin
Detection Kit Type:	Combo Pack

Application Details

Application Note: The set includes five ModDetect® 2'-O-Methoxyethyl (2'MOE) biotin labeled detection reagents [clone MOE1 (200-306-NF0S), clone MOE3 (200-306-NF1S), clone MOE4 (200-306-NF2S), clone MOE9 (200-306-NF3S), and clone MOEC (200-306-NF4S)] each supplied as a 25 µL aliquot at approximately 1.0 mg/mL, curated by binding characteristics, and three reporter molecules labeled with peroxidase (S000-03S), 488 λ fluorophore (S000-41) and 649 λ fluorophore (S000-43) each supplied as 100µg. The different binding characteristics create opportunities to generate highly optimized immunoassays independent of oligonucleotide sequence, as opposed to spending significant efforts to optimize assays to underperforming reagents. Designed for use in various immunoassays, such as ELISA, IF, and IHC.

NOTE: Panel detection reagents components are provided in a 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride buffer, pH 7.2. This buffer contains 0.01 % Sodium Azide as a preservative and 10 mg/mL carrier protein as a stabilizing reagent.

Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	User Optimized
IF:	User Optimized
IHC:	User Optimized

Formulation

Physical State: Liquid and Lyophilized

Concentration: See insert

Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: Please see product page for complete product description.

Store five 2'-O-Methoxyethyl vials at -20°C or below prior to opening. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.

Store three reporter molecule vials at 4°C or -20°C prior to restoration. For extended storage aliquot contents and freeze at -20°C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4°C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Kit Box

The ModDetect® 2'-O-Methoxyethyl (2'MOE) Biotinylated Panel includes the following components: five biotin labeled ModDetect® 2'-O-Methoxyethyl detection reagents MOE1, MOE3, MOE4, MOE9, MOEC and three reporter molecules labeled with peroxidase, 488 λ fluorophore and 649 λ fluorophore.

References

- Chimento DP et al. Bioanalytical Assays for Oligonucleotide Therapeutics: Adding Antibody-Based Immunoassays to the Toolbox as an Orthogonal Approach to LC-MS/MS and Ligand Binding Assays. *Nucleic Acid Ther.* (2025)
- Fial I et al. Characterizing Antibodies Targeting Antisense Oligonucleotide Phosphorothioate and 2'-O-Methoxyethyl Modifications for Intracellular Trafficking and Biodistribution Studies. *Nucleic Acid Ther.* (2025)
- Kashyap D et al. Harnessing BET-Bromodomain Assisted Nuclear Import for Targeted Subcellular Localization and Enhanced Efficacy of Antisense Oligonucleotides. *J Am Chem Soc.* (2025)

Disclaimer

THE MATERIALS PROVIDED WITH THIS CERTIFICATE OF ANALYSIS (MATERIALS) ARE FOR RESEARCH USE ONLY AND SUBJECT TO A MATERIAL EVALUATION AGREEMENT.

BY USING THIS PRODUCT, THE USER AGREES TO BE BOUND BY THE TERMS OF THE MATERIAL EVALUATION AGREEMENT. If the user is not willing to accept the terms of the agreement and the product is unused, Rockland will accept return of the unused product and provide the user with a full refund. Pursuant to the agreement, the user may use the product for research use only.

NO TRANSFER OR COMMERCIAL USE OF THIS PRODUCT IS ALLOWED. Commercial use means a use of the product in exchange for consideration, including use in the manufacture of a product, in a clinical trial or other testing regulated by a government agency (e.g. FDA, EMEA, EPA, etc.) including ADA and clearance assays, use of the product in the provision of services, and the resale of the product. Rockland reserves all other rights not permitted under the license granted herein, including the rights which are embodied in other products or materials derived from the use of the Materials or know-how embodied in the Materials.

NO RIGHT IS GRANTED UNDER THE LICENSE TO MODIFY OR OTHERWISE CREATE DERIVATIVES OR VARIATIONS OF THE PRODUCT OR TO USE ROCKLAND'S KNOW-HOW OR OTHER INTELLECTUAL PROPERTY FOR OTHER USES. No other use of this product is authorized without the express written prior consent of Rockland, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, therapeutic uses, or any type of consumption by or application to humans or animals.

For uses outside the agreement including any diagnostic, therapeutic or commercial use, please contact Rockland for supply and licensing information at licensing@rockland.com.