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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)

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