miRCURY LNA™ microRNA Power Family Inhibitors
hsa-miR-133 Product Data Sheet

Cat. no. 339160 YFI0450029

Predesigned sets of miRCURY LNA miRNA Inhibitors for miRNA families

Description

miRCURY LNA miRNA Family Power Inhibitors allow you to study regulatory roles shared by highly related, co-expressed and functionally redundant miRNAs. Such functions would not be revealed in analyses using inhibitors of individual family members. These antisense oligonucleotides have perfect sequence complementarity to their targets, and when introduced into cells, they sequester the target miRNA in highly stable heteroduplexes that prevent interaction with the normal cellular partners.

For further details, consult the *miRCURY® LNA® miRNA Inhibitors and Target Site Blockers Handbook*.

Kit Contents

5 nmol oligonucleotide set, purified by desalting (Cephadex filtration), dried down in tube format

Inhibitor Name	Sequence	miRNA Target
hsa-miR-133 FI	GGTTGAAGGGGACCAA	hsa-miR-133a-3p

The inhibitors may contain mixed DNA bases, which will be indicated by a special letter within the product sequence above. Legend: K = G,T M = A,C R = A,G S = C,G W = A,G Y = C,T

Ordering Information

Product	Contents	Cat. no.
Inhibitors and controls		
miRCURY LNA miRNA Inhibitor (1 nmol)	1 nmol oligonucleotide, dried down in tube format; no label; normal phosphodiester bonds	339120
miRCURY LNA miRNA Inhibitor (5 nmol)	5 nmol oligonucleotide, dried down in tube format; no label or 5' or 3' FAM; normal phosphodiester bonds	339121
miRCURY LNA miRNA Inhibitor (15 nmol)	15 nmol oligonucleotide, dried down in tube format; no label; normal phosphodiester bonds	339122
miRCURY LNA miRNA Power Inhibitor (1 nmol)	1 nmol oligonucleotide, dried down in tube format; no label; phosphorothioate-modified backbone	339130
miRCURY LNA miRNA Power Inhibitor (5 nmol)	5 nmol oligonucleotide, dried down in tube format; no label or 5' or 3' FAM; phosphorothioate-modified backbone	339131
miRCURY LNA miRNA Power Inhibitor (15 nmol)	15 nmol oligonucleotide, dried down in tube format; no label; phosphorothioate-modified backbone	339132
miRCURY LNA miRNA Inhibitor Control (1 nmol)	1 nmol oligonucleotide, dried down in tube format; no label; normal phosphodiester bonds	339125
miRCURY LNA miRNA Inhibitor Control (5 nmol)	5 nmol oligonucleotide, dried down in tube format; no label or 5' or 3' FAM; normal phosphodiester bonds	339126
miRCURY LNA miRNA Inhibitor Control (15 nmol)	15 nmol oligonucleotide, dried down in tube format; no label; normal phosphodiester bonds	339127
miRCURY LNA miRNA Power Inhibitor Control (1 nmol)	1 nmol oligonucleotide, dried down in tube format; no label; phosphorothioate-modified backbone	339135
miRCURY LNA miRNA Power Inhibitor Control (5 nmol)	5 nmol oligonucleotide, dried down in tube format; no label or 5' or 3' FAM; phosphorothioate-modified backbone	339136
miRCURY LNA miRNA Power Inhibitor Control (15 nmol)	15 nmol oligonucleotide, dried down in tube format; no label; phosphorothioate-modified backbone	339137
miRCURY LNA miRNA Family Power Inhibitor	5 nmol oligonucleotide set, dried down in tube format; no label; phosphorothioate- modified backbone	339160

Target site blockers and controls

miRCURY LNA miRNA Power Target Site Blocker (5 nmol)	5 nmol oligonucleotide, dried down in tube format; no label; phosphorothioate-modified backbone	339194
miRCURY LNA miRNA Power Target Site Blocker (5 nmol)	15 nmol oligonucleotide, dried down in tube format; no label; phosphorothioate-modified backbone	339195
miRCURY LNA miRNA Power Target Site Blocker, in vivo ready (5 nmol)	5 nmol oligonucleotide, dried down in tube format; no label; phosphorothioate-modified backbone	339199
miRCURY LNA miRNA Power Target Site Blocker, in vivo ready (15 nmol)	15 nmol oligonucleotide, dried down in tube format; no label; phosphorothioate-modified backbone	339200

Related Products

miRCURY LNA miRNA PCR Assay	LNA-optimized PCR assay for miRNA quantification; for 200 reactions	339306
miRCURY LNA miRNA Custom PCR Assay	Custom-designed and LNA-optimized PCR assay for miRNA quantification; for 200 reactions	339317
miRCURY LNA RT Kit	5x RT Reaction Buffer, 10x RT Enzyme Mix, UniSp6, RNA Spike-in template, RNase-free water; for 8–64 reactions	339340
miRCURY LNA miRNA PCR Starter Kit	2 miRCURY LNA PCR Assays of your choice, UniSp6 Spike-in control assay, miR-103-3p endogenous control assay, 5x RT Reaction Buffer, 10x RT Enzyme Mix, UniSp6 RNA Spike-in template, RNase-free water, 2x miRCURY SYBR Green Master Mix; for 20 RT reactions and 100 PCR amplifications	339320
miRCURY LNA SYBR Green PCR Kit (200)	2x miRCURY SYBR Green PCR Master Mix, miRCURY SYBR Green PCR Buffer and dNTP mix (dATP, dCTP, dGTP, dTTP), ROX Dye, Nuclease-free Water; for 200 reactions	339345
miRCURY LNA miRNA Mimic (5 nmol)	5 nmol oligonucleotide, dried down in tube format	339173
miRCURY LNA Premium miRNA Mimic (5 nmol)	5 nmol oligonucleotide, dried down in tube format	339173

Shipping and storage

The miRCURY LNA miRNA Inhibitors and Target Site Blockers are shipped at room temperature. Unopened vials should be stored at –15 to –30°C or below. Fluorescence- labeled oligonucleotides should be protected from light to avoid bleaching. When stored in this manner, they will remain stable at least 6 months after the shipping date. Exposure to higher ambient temperatures during shipment does not pose any risk to the stability of the oligonucleotides.

Oligonucleotides are degraded by repeated freeze-thaw cycles, especially when in solution. It is recommended to store the miRCURY LNA miRNA Inhibitors and Target Site Blockers in aliquots at –15 to –30°C or below in a constant-temperature freezer after re-suspension to avoid repeated freeze-thaw cycles. Do not store in frost-free freezers with automatic thaw- freeze cycles.

Intended Use

The miRCURY LNA miRNA Inhibitors and Target Site Blockers are intended for molecular biology applications. These products are not intended for the diagnosis, prevention or treatment of a disease.
All due care and attention should be exercised in the handling of the product. We recommend all users of QIAGEN® products to adhere to the NIH guidelines that have been developed for recombinant DNA experiments, or to other applicable guidelines.

Safety Information

When working with chemicals, always wear a suitable lab coat, disposable gloves and protective goggles. For more information, please consult the appropriate safety data sheets (SDSs). These are available online in convenient and compact PDF format at www.qiagen.com/safety where you can find, view and print the SDS for each QIAGEN kit and kit component.

Quality Control

In accordance with QIAGEN's ISO-certified Quality Management System, each lot of miRCURY LNA miRNA Inhibitors and Target Site Blockers is tested against predetermined specifications to ensure consistent product quality. These oligonucleotides are analyzed by CE or IE-HPLC and the identity of the compound is confirmed by MS.

For up-to-date licensing information and product-specific disclaimers, see the respective QIAGEN kit handbook or user manual. QIAGEN kit handbooks and user manuals are available at www.qiagen.com or can be requested from QIAGEN Technical Services or your local distributor.