

# Heteroduplex Oligonucleotide (HDO) Trial service

We launches a service that allows customers to try HDO widely.  
Both of pharmaceutical companies and academies can try this trial service.

## About Technology

- HDO is an artificial functional nucleic acid consisting of an ANTISENSE strand and a CARRIER strand.
- A variety of LIGANDs can be bound to the CARRIER strand.
- HDO with LIGAND have significantly better knockdown activity than ASO.

ANTISENSE strand

e.g., oligonucleotide (Gapmer, Mixmer, PMO)

Oligonucleotide

CARRIER strand (RNA)

RNA

Ligand

## Service Contents

We offer HDO with ligand\* in your specified sequence and ligand.

Synthesis	A variety of modified oligonucleotides and ligands available
Purification	LC (RP, IEX)
Double-Stranded Formation	Annealing
Drying	Lyophilization
Standard Test Items	RP-UHPLC and MS (single strand) / Native PAGE (double strand)
Cautions	<ul style="list-style-type: none"><li>➤ Maximum sample volume is 30mg.</li><li>➤ For experiment and research purposes only (not for human studies).</li><li>➤ We may refuse sequences targeting fatty acid synthase genes.</li></ul>

\* HDO with ligand is provided by Nippon Shokubai Co., Ltd. under license from Rena Therapeutics, Inc.

## Business Flow

STEP 01  
Contact

STEP 02  
Quote

STEP 03  
Synthesis / Analysis

Contact  
Information

Trial Service

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HDO Technology

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