

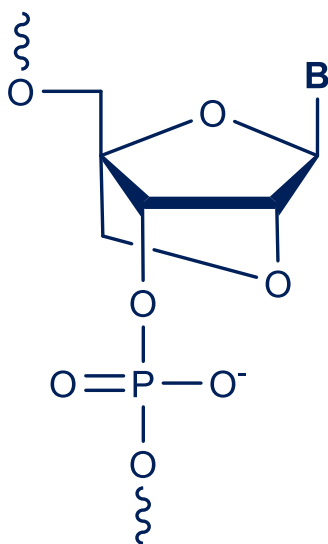
# Locked nucleic acid

## Oligonucleotides

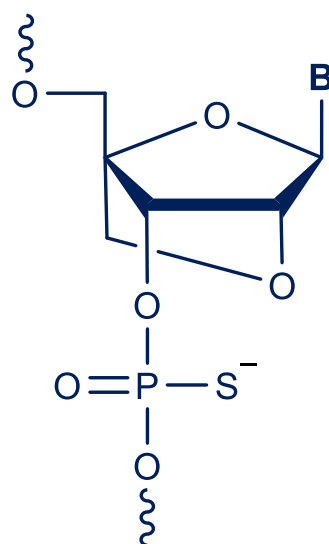
### DESCRIPTION

Locked nucleic acid (LNA) is a modified RNA in which the ribose moiety is conformationally restricted by a 2'-4'-methylene bridge to adopt a C3'-endo conformation. Incorporation of LNA-nucleotides significantly increases the melting temperature of oligonucleotides. We offer LNA with phosphodiester or phosphorothioate linkages. Phosphorothioate bonds are phosphodiester analogues in which the non-bridging oxygen has been replaced by sulphur, increasing resistance against nuclease digestion.

### STRUCTURE



LNA with Phosphodiester  
Linkage  
B = A, 5-MeC, G, T



LNA with Phosphorothioate  
Linkage  
B = A, 5-MeC, G, T

# LNA – Oligonucleotides

## BENEFITS

Very high target RNA binding affinity

Improved serum stability and mismatch discrimination

Good for antimiRs/antagomiRs, G-quadruplexes, primers and probe designs

## ORDERING INFORMATION

Product – Synthesis code	Product #	Synthesis scale & other scales on request
LNA – IA, IG, IC, IU	LNA01-200	200 nmol
	LNA01-M01	1 µmol
	LNA01-M02	2 µmol
	LNA01-M05	5 µmol
	LNA01-M10	10 µmol
LNA + Phosphorothioate linkage – IA*, IG*, IC*, IU*	LNA02-200	200 nmol
	LNA02-M01	1 µmol
	LNA02-M02	2 µmol
	LNA02-M05	5 µmol
	LNA02-M10	10 µmol

## HOW TO ORDER

- ONLINE: <https://www.syngenis.com/get-quote/>
- EMAIL: Please send your request to [info@syngenis.com](mailto:info@syngenis.com)