

- Maximal gene silencing
- Enhanced serum stability
- Less toxicity

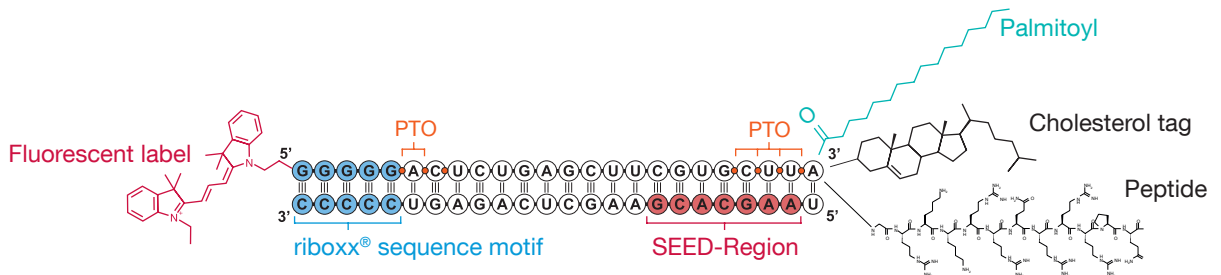


Figure 1. IVORI® siRNA with the proprietary rib maxx® sequence motif and chemical modifications.

A new patented structure of siRNA with a special sequence motif (Figure 1) provides siRNA with unique traits. The IVORI® siRNA is highly stable in serum and body fluids, more potent and less toxic than commonly used siRNAs. These properties make it ideal for gene silencing experiments *in vivo* (animal models) and preclinical studies.

Moreover, Rib maxx provides scientists with the full range of siRNA delivery solutions, ranging from cholesterol groups to cell-penetrating peptides. Additional modifications in the backbone of the siRNA (e.g. in the sense strand) decrease the non-specific immunologic response *in vivo*, subsequently increasing the specificity of gene silencing.

Maximal Gene Silencing

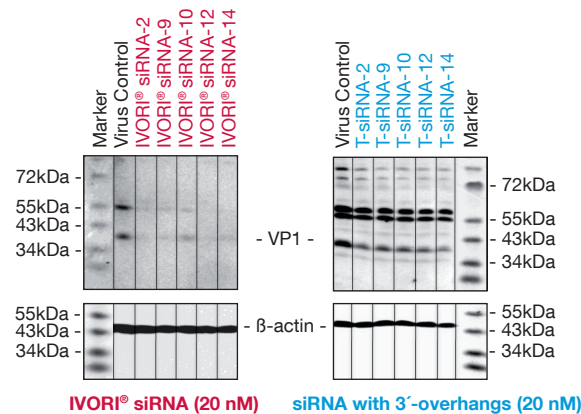


Figure 2. Enhanced silencing effectiveness of the IVORI® siRNA compared to siRNA with 3'-overhangs. Five siRNA displaying the rib maxx® sequence motif (IVORI® siRNA) and five siRNA with 3'-overhangs (T-siRNA) were assayed at a concentration of 20 nM as to their gene silencing potency in a virus model of infection *in vitro*. The virus model of infection relies on infection of HeLa-Cells monolayers by the human rhinovirus 1B. Protein expression was evidenced by western blot. The siRNA were directed against the viral protein VP1. All IVORI® siRNA were able to silence the VP1 gene at a concentration of 20 nM. While no silencing was observed when the siRNA displaying the 3'-overhangs (T-siRNA) were used at the same concentration. As a control, β -actin expression was detected.

Enhanced Serum Stability

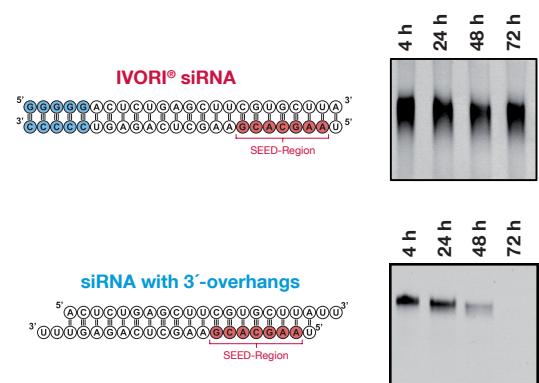


Figure 3. Comparison of the stability of the IVORI® siRNA and the siRNA with 3'-overhangs in mouse serum. The IVORI® siRNA was incubated at a concentration of 3 μ M in 80% mouse serum, and the samples analyzed at the indicated time points. Analysis was performed on 20% native PAGE and UV-transillumination. The IVORI® siRNA displays stability in mouse serum for 72 h. In comparison, the siRNA with 3'-overhangs is digested at 48 h post-incubation.

IVORI® siRNA

Ordering Information

To meet your specific experimental needs, Riboxx offers various scales and a wide range of chemical modifications of the IVORI® siRNA:

Product Name	Cat. No.	Quantity		Purification / QC
IVORI siRNA S	D-00103-0005	5 nmol	>1.0 OD	RP / IEX HPLC
IVORI siRNA M	D-00103-0020	20 nmol	>4 OD	RP / IEX HPLC
IVORI siRNA L	D-00201-0200	200 nmol	>40 OD	RP / IEX HPLC
IVORI siRNA XL	D-00301-1500	1500 nmol	>300 OD	RP / IEX HPLC
IVORI siRNA Large Scale	D-00501-3000	>3000 nmol	>600 OD	RP / IEX HPLC

IVORI® siRNA Modifications	
5' Modifications	Dyes, spacers, linkers, affinity tags, peptide and hydrophobic anchor groups
3' Modifications	Dyes, spacers, linkers, affinity tags, peptide and hydrophobic anchor groups
Backbone Modifications	2'-Fluoro, 2'-Methoxy, α -Thio

Order

Products & Services can be ordered by:

Fax: 0049 (0)351 83 36 01-39

E-Mail: order@riboxx.com

Online-Shop: www.riboxx.com

Support & Technical Assistance

For technical assistance please visit www.riboxx.com

or contact us directly:

Phone: 0049 (0)351 83 36 01-0

Fax: 0049 (0)351 83 36 01-39

E-Mail: support@riboxx.com

Other Riboxx Products & Services

IBONI® - *in vitro* siRNA

- Prolonged gene silencing
- Reduced off-target effects
- Gene Silencing Guarantee Service

IBONI® siRNA Control

- Pre-designed double-stranded RNA
- Successfully validated by independent scientists
- Positive and negative controls

riboxx® RNA

- 7 - 80 base pairs
- Scale up to 1 gram
- Modified or non-modified

riboxx® Custom siRNA Libraries

- Increased knock-down efficiency
- Enhanced RNase resistance
- Gene Silencing Guarantee service

CONTRAmir™ - miRNA Inhibitor

- Pre-designed or custom
- Backbone modifications
- End modifications

CONmir™ - miRNA Mimic

- Pre-designed or custom
- Backbone modifications
- End modifications

riboxx® FECT (with Chromo-GAPDH-siRNA)*

- Powerful transfection reagent for siRNA, RNA, miRNA
- ***Control of transfection and gene silencing efficiency**
- For adherent cells or cells in suspension
- Perfect compatibility with riboxx® products

Additional Services

- Design of siRNA targets
- Additional purification
- Additional quality control
- **Special services on request**

