

Invitrogen siRNA

Precise silencing, powerful results

RNA interference (RNAi) is a powerful method for targeted gene silencing and functional analysis in a wide range of cell types.

Invitrogen™ siRNA is backed by more than 20 years of experience, enabling researchers to make powerful discoveries with confidence in their results. Our siRNA reagents scale from single-gene modulation experiments to libraries for high-throughput screening to support cell culture work through *in vivo* studies.

Silencer Select siRNA

Invitrogen™ *Silencer*™ Select siRNA combines algorithm design and locked nucleic acid (LNA) modifications for exceptional potency and specificity. Find the right siRNA for your research with our predesigned siRNA search tool at thermofisher.com/sirna.

Benefits of *Silencer* Select siRNA include:

- **100-fold more potent**—compared to any other currently available siRNA
- **90% fewer off-target effects**—due to LNA chemical modifications
- **100% guaranteed silencing**—[one of the best guarantees](#) in the industry*

Characteristics of Invitrogen™ siRNA products.

| | <i>Silencer</i> Select siRNA | <i>Silencer</i> ™ siRNA | Stealth RNAi™ siRNA |
|---------------------------|----------------------------------|----------------------------------|---------------------------|
| >70% knockdown efficiency | 2 of 2 siRNA | 2 of 3 siRNA | 2 of 3 siRNA |
| Potency | 5 nM | 30 nM | 20 nM |
| Specificity | Highest | Moderate | High |
| Format | 19 bp duplex 2 dNTP overhangs | 19 bp duplex 2 dNTP overhangs | 25 bp duplex |
| Modifications | LNA-modified | Unmodified | Proprietary modifications |
| Coverage | Coding and noncoding RNA | Coding RNA | Coding RNA |

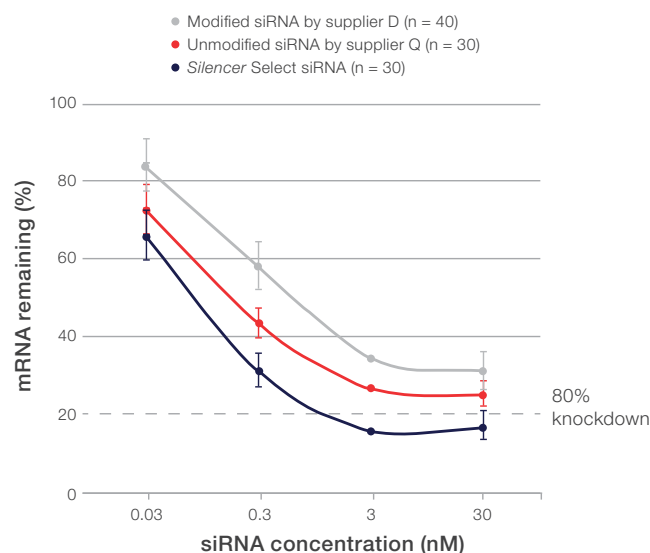


Figure 1. *Silencer* Select siRNA combines exceptional algorithm design and chemical modifications to deliver superior potency—achieving efficient mRNA knockdown at concentrations as low as 5 nM.

Optimize delivery and knockdown analysis with our companion offerings

Lipofectamine RNAiMAX Transfection Reagent

Invitrogen™ Lipofectamine™ RNAiMAX™ reagent is optimized for highly efficient siRNA and microRNA delivery with low toxicity. With versatile applications for a wide range of cell types, maximal knockdown effects can be achieved with minimal impact on cell health.

TaqMan Gene Expression Assays

Directly assess the impact of siRNA on gene expression by measuring the mRNA levels of target genes with Applied Biosystems™ TaqMan™ Gene Expression Assays. Recommended TaqMan Assays are available for every predesigned siRNA, helping enable high specificity and sensitivity detection with reproducible results.

Interested in *in vivo* studies? We offer Invitrogen™ Ambion™ *In Vivo* siRNA. Learn more at thermofisher.com/invivosiRNA

Ordering information

| Product | Quantity | Cat. No. |
|---------------------------------------------------------------------------|------------|----------|
| Silencer Select siRNA—highest knockdown, lowest off-target effects | | |
| Silencer Select Predesigned siRNA | 5 nmol | 4392420 |
| Silencer Select Validated siRNA | 5 nmol | 4390824 |
| Silencer Select Negative Control No. 1 siRNA | 5 nmol | 4390843 |
| Silencer Select Negative Control No. 2 siRNA | 5 nmol | 4390846 |
| Silencer Select GAPDH Positive Control siRNA | 5 nmol | 4390849 |
| Stealth siRNA—good knockdown, low off-target effects | | |
| Stealth RNAi Predesigned siRNA, Human | 20 nmol | 1299001 |
| Stealth RNAi siRNA Negative Control, Lo GC | 250 µL | 12935200 |
| Stealth RNAi siRNA Negative Control, Med GC | 250 µL | 12935300 |
| Stealth RNAi siRNA Negative Control, Hi GC | 250 µL | 12935400 |
| Block-IT Alexa Fluor Red Fluorescent Control, 20 µM | 2 x 120 µL | 14750100 |
| Silencer siRNA—cost-effective siRNA | | |
| Silencer Validated siRNA | 5 nmol | AM51331 |
| Silencer Predesigned siRNA | 5 nmol | AM16708 |
| Ambion Silencer GFP (eGFP) siRNA | 5 nmol | AM4626 |
| Ambion Silencer Negative Control No. 1 siRNA | 5 nmol | AM4611 |
| Companion products | | |
| Lipofectamine RNAiMAX Transfection Reagent | 0.1 mL | 13778100 |
| TaqMan Gene Expression Assay (FAM) | 75 rxns | 4453320 |

* For full terms of our silencing guarantee, please visit thermofisher.com/silencingguarantee.

See our full offerings for siRNA at thermofisher.com/sirna

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