

CUSTOM siRNA

Oligonucleotides

Tools for Gene Silencing

There are various approaches to study RNAi. Synthetic siRNA (small interfering RNAs) and shRNA (small hairpin RNA) constructs are two of the numerous options available. BSI provides the custom synthesis of sequence-specific siRNA for direct transfection, as well as the routine synthesis of shRNA oligos, ~60 bases long purified DNA oligos to be cloned to form shRNA constructs. Our siRNAs are double-stranded DNA, RNA or LNA molecules, made of 19 RNA nucleotides with two nucleotides (usually DNA bases) 3' overhang or 27 mer with no overhang. They are used to knockdown a specific gene of interest for identifying gene function, elucidating pathways and screening for potential new drug targets.

All of our siRNA quality is always guaranteed!

Free online design Gizmo tools
Rapid turn-around - high throughput capacity
Deprotected, desalted, annealed and ready-to-use
µg to multi-gram capacity for ASR or cGMP grade

Your choice of purification, amount and format
Available in duplex or single-stranded form
Various Synthesis and purification options
Comprehensive QC packages for each siRNA

21mer

Classical siRNA molecule with dTdT overhang:
(NN)-N19 template (21mer, dTdT)

Scale nmol	Desalted	HPLC	In-Vivo-Ready	In-Vivo-Ready HPLC
20	✓	✓	✓	✓
40	✓	✓	✓	✓
150	✓	✓	✓	✓
300	✓			
750	✓			

27mer

No overhang. Recent publications indicate a higher efficiency than the 'classical' 21mer siRNA

Scale nmol	Desalted	HPLC	In-Vivo-Ready	In-Vivo-Ready HPLC
20	✓	✓	✓	✓
40	✓	✓	✓	✓
150	✓	✓	✓	✓
300	✓			
750	✓			

MODIFICATIONS

Position	5'	3'	5'	3'
FAM	✓		Cholesteryl	✓
HEX	✓		Phosphate	✓
TET	✓		Amino C7	✓
CY3	✓		Biotin	✓
Amino C6	✓		Biotin TEG	✓
Biotin	✓		Fluorescein	✓

More modifications, visit biosyn.com

www.biosyn.com

Service across Genomics, Proteomics, and Cell Biology



bioSYNTHESIS
COMMITTED TO BIOMIC RESEARCH

Toll Free: 800.227.0627 | 972.420.8505

Mail: info@biosyn.com

612 E. Main Street, Lewisville, TX 75057 USA