

Custom Oligonucleotide Modification Guide

PLACING AN ORDER

Sequence Information (canonical nucleosides):

For standard DNA/RNA/LNA oligonucleotides, please provide the sequence information in the following style:

DNA = ACTG, U = 2'-Desoxyuridine; RNA = ACUG LNA = ACTG

For mixtures of different types please use for DNA bases normal letters, for RNA bases an introduced "r" and for LNA an introduced "+": e.g. GGrCrG+T+T

Synthesis Scale

Oligonucleotides can be synthesized on the following scales:

DNA = 40 nmol, 200 nmol, 1 μmol; RNA = 200 nmol, 1 μmol; LNA = 40 nmol, 200 nmol, 1 μmol

Large scale syntheses and yield syntheses are also available upon customer request.

Purification and Format

Oligonucleotides are purified by reverse-phase high performance liquid chromatography (RP-HPLC). Desalted oligos (without HPLC purification) are also available upon customer request. All oligonucleotides are lyophilized unless otherwise specified. Oligonucleotides may also be ordered as concentrated solutions upon customer request.

Degenerated/Wobble Bases

A mixture of different bases at the same nucleoside position is referred to as a wobble base. For wobblebase requests, please use the universal nomenclature (IUPC code).

Letter Symbol	Μ	R	W	S	Y	К	V	Н	D	В	Ν
Base Mixture	AC	AG	AT	GC	СТ	GT	AGC	ACT	AGT	GCT	AGCT

Standard Modifications:

Modifications should be designated with an X, L, or Z, and the appropriate structure selected from the drop-down menu.

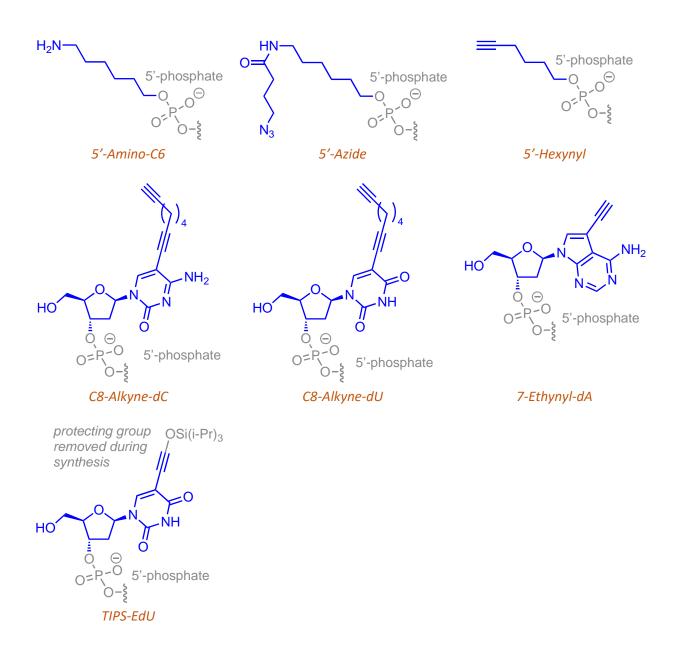
Non-Standard Modifications

baseclick offers over 50 diverse chemical modifications that do not appear in our standard catalogue. To request a special modification, please leave a comment in the field underneath your oligo request.



Standard 5'-Modifications

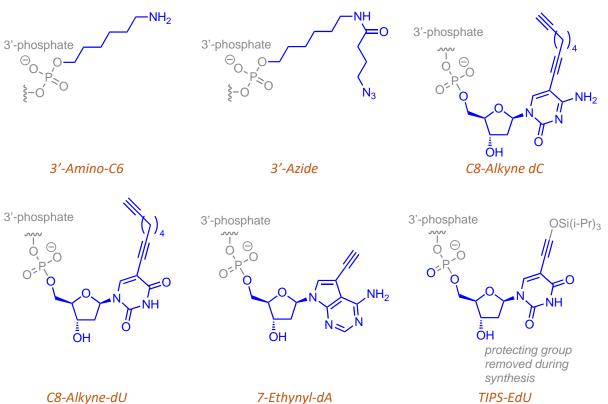
• The following modifications are immediately available at baseclick:





Standard 3'-Modifications

The following modifications are immediately available at baseclick: •



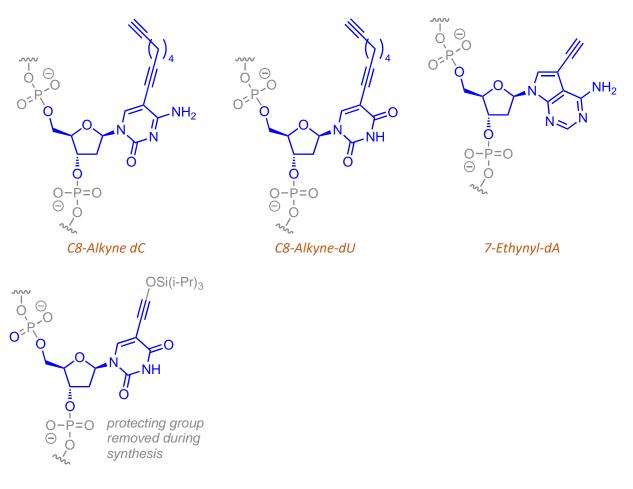
C8-Alkyne-dU

7-Ethynyl-dA



Standard Internal Modifications

• The following modifications are immediately available at baseclick:



TIPS-EdU



Special (Non-Standard Modifications)

• The following modifications may be available upon request. To inquire if these or any other modifications are available, please leave a comment in the appropriate field of your request.

Modification 5'	Internal Modification	Modification 3'
6-FAM	AbasicAlkyne	6-FAM
Amino Modifier C12	AbasicAmine	BHQ0
BHQ1	BHQ1	BHQ1
BHQ2	BHQ1-dT	BHQ2
Biotin	BHQ2	BHQ3
Biotin-TEG	BHQ2-dT	Biotin
СуЗ	FAM dT/dC/dA	Cy3
Cy5	DBCO(C2)-dT/dC/dA	Cy5
Cy5.5	DBCO(PEG4)-dT/dC/dA	ddC
Maleimide		TAMRA
PEG5/10/20kDA		
TAMRA		

NHS-Ester and Click-Modifications

• Various modifications are available upon customer inquiry.

Don't see your desired modification here? Submit an inquiry through the online portal, and your special oligo may still be synthesizable.