photoreactive linkers

specific release of biomolecules

Cleavable linkers
for oligonucleotides

Photoreactive linkers

Photoreactive linkers allow targeted release of biomolecules at particular time. Here, the binding is cleaved by an external, non-invasive light pulse (UV light 300-400 nm), which release the molecule.

Using the "photocleavable" linkers (PC linkers), for example, organic substrates can be coupled to solid phases or other biomolecules. Especially in so-called photo-induced hybridisation approaches, photocleavable linkers are commonly used.

Purification: RP-HPLC
Quality control: Maldi-TOF MS
Modification: 5´-Terminus, internal

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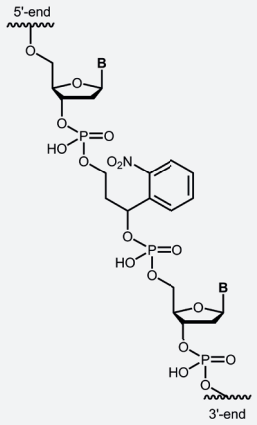
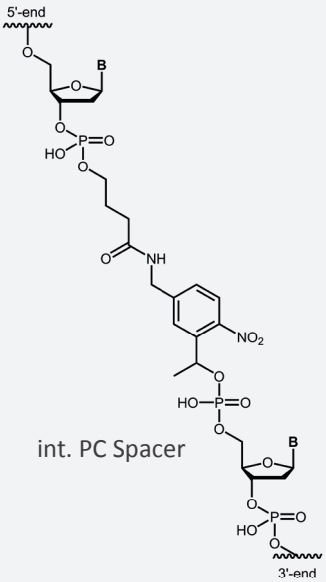
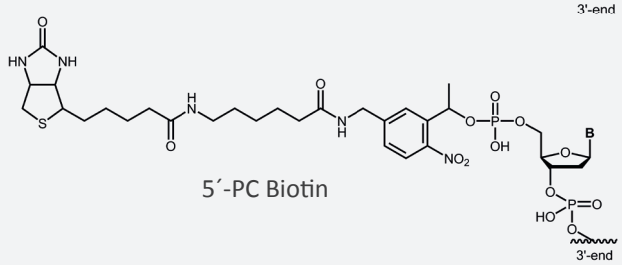
Photoreactive linkers with a so-called nitrobenzyl group (N=O double bond) are most frequently used for the spatially and temporally precisely controlled cleavage. For the linkage with oligonucleotides, various photocleavable linkers are available:



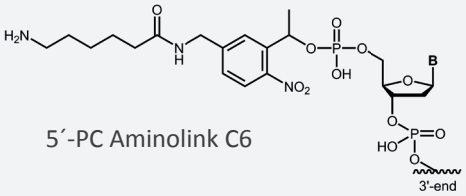
int. PC Linker



int. PC Spacer



5´-PC Biotin



5´-PC Aminolink C6

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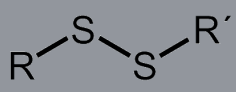
Disulfide bridges

Disulfide bridges naturally play an important role in the maintenance of protein structures. In contrast, within an oligo sequence, a disulfide bridge represents a cleavable site in the sequence that can be split under reductive conditions (TCEP, DTT). In this way, for example, a correspondingly attached functional group can be released.

Purification: RP-HPLC
Quality control: Maldi-TOF MS
Modification: 5´-/3´-Terminus, internal



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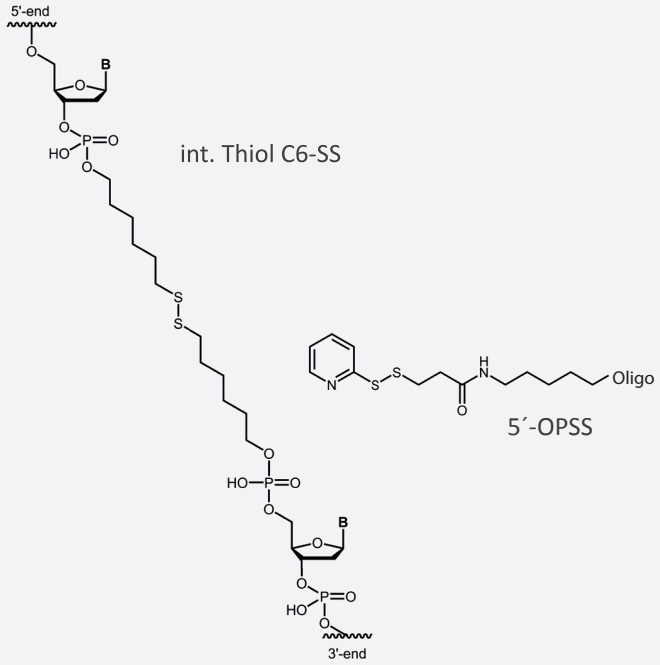
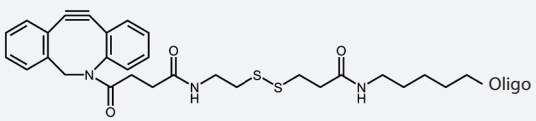
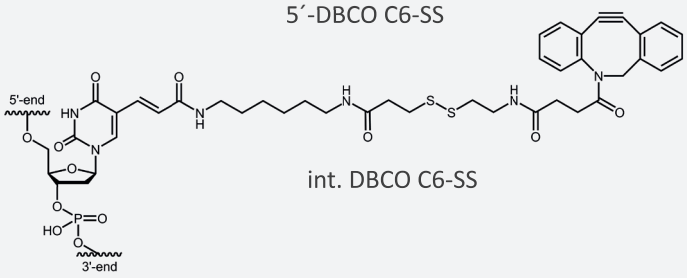
In addition to functioning as an internal "breaking point" within an oligo sequence, disulfide bridges can also carry other modifications (e.g. haptens, dyes, etc.) which can be cleaved off appropriately.





5´-DBCO C6-SS



int. DBCO C6-SS

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