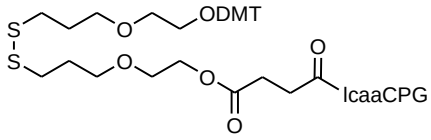
Thiol-modifier-oxa-6-S-S CPG

Product No. BA 0351

Product Information



In synthesizing oligonucleotides, it can be useful to include a thiol or a disulfide as a modification to the oligonucleotide. These sulfur containing groups, not present in natural oligonucleotides, enable attachment of the oligonucleotide to surfaces or to other molecules of interest. When the modification is to occur at the 3'-terminus of the oligo, one common strategy is to link one end of a symmetrical alkyl disulfide to the solid support *via* an amide bond to the terminal amino group of the long chain amino alkyl moiety. The oligonucleotide chain is then extended from the other end of the disulfide.

We have discovered that DNA synthesis is markedly enhanced by including ether functionality in the alkyl chain of the disulfide. ***Both superior oligo yield and greater maximum synthesis length are thereby achieved with BA 0351.*** BA 0351 (patent pending) utilizes an ether-containing disulfide that has the same chain length as C6-disulfide.

For additional information on this product and its comparison to related disulfide reagents, please see Issue 6 of the Berry and Associates Newsletter which can be downloaded from our website (www.berryassoc.com).

Use: For oligonucleotide synthesis, standard coupling protocols should be employed, and coupling efficiencies of > 98 % can be obtained. Cleavage from the solid support may be carried out by standard procedures (NH_4OH, 2 h). Maximum synthesis length of > 100 mer can also be obtained.