

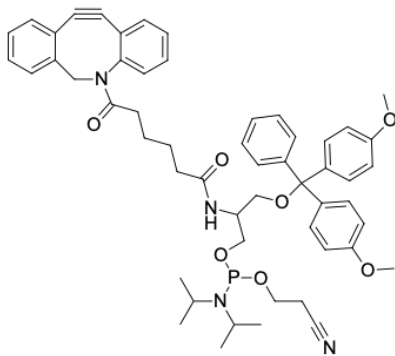
## DBCO-Serinol phosphoramidite

<http://hk.lumiprobe.com/p/dbco-serinol-phosphoramidite>

Incorporation of DBCO-Serinol at a defined position within the oligonucleotide chain yields a reactive alkyne group ready for highly selective, bioorthogonal conjugation with azide-bearing molecules via strain-promoted azide-alkyne cycloaddition (SPAAC). Because this reaction does not require copper catalysts, it can be performed under mild conditions, including in the presence of living cells or sensitive biomacromolecules.

The modified oligonucleotides can be conjugated with fluorophores, biotin, peptides, polymers, nanoparticles, and other partners. This enables the preparation of probes for hybridization-based assays (FISH, microarrays), aptamers, delivery conjugates, and DNA nanostructures.

During synthesis, it is important to replace the standard iodine oxidation with an alternative oxidizer (CSO), as the DBCO group is sensitive to iodine; otherwise, the reagent is compatible with standard solid-phase synthesis protocols and subsequent purification by HPLC or PAGE.



外观:

分子量: 909.08

分子式:  $C_{54}H_{61}N_4O_7P$

溶解度:

质量控制:

储存条件:

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