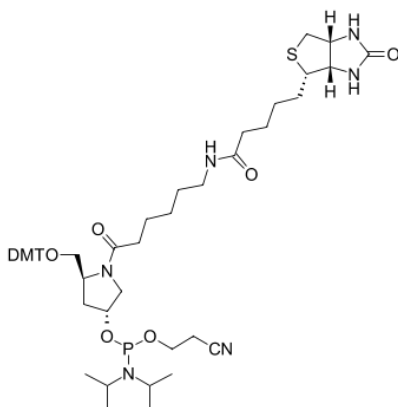


Biotin phosphoramidite (hydroxyprolinol)

<http://www.lumiprobe.com/p/biotin-phosphoramidite-pro>

Non-nucleosidic modifier reagent for the synthesis of biotinylated oligos based on a hydroxyprolinol core. This phosphoramidite contains a dimethoxytrityl protective group for the purification of the resulting oligos on C₁₈ cartridges, and reverse phase HPLC. This modifier reagent can be used to introduce biotin onto 5'-position, 3'-position (using universal CPG), and internal oligo sites.

This amidite does not require special condensation and deprotection conditions.



Structure of biotin phosphoramidite

General properties

Appearance:	white powder
Molecular weight:	959.18
Molecular formula:	C ₅₁ H ₇₁ N ₆ O ₈ PS
Solubility:	good in MeCN, DCM, THF
Quality control:	NMR ¹ H, ³¹ P, HPLC-MS (95%), functional testing in oligo synthesis
Storage conditions:	Storage: 12 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.

Oligo synthesis details

Diluent:	acetonitrile
Coupling conditions:	standard coupling, identical to normal nucleobases
Deprotection conditions:	identical to protected nucleobases