

## 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 C<sub>18</sub> 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

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#### General properties

Appearance:	white powder
Molecular weight:	959.18
Molecular formula:	C <sub>51</sub> H <sub>71</sub> N <sub>6</sub> O <sub>8</sub> PS
Solubility:	good in MeCN, DCM, THF
Quality control:	NMR <sup>1</sup> H, <sup>31</sup> 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