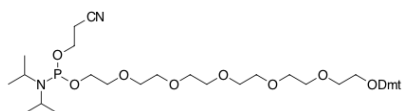


Hexaethylene glycol phosphoramidite

<http://www.lumiprobe.com/p/hexaethyleneglycol-phosphoramidite-spacer-c18>

Spacer phosphoramidite 18 (hexaethylene glycol phosphoramidite) is an amidite reagent for oligonucleotide synthesis. It provides a long hydrophilic linker that can be used for the synthesis of Scorpion-type qPCR probes, for spacing biotin from oligo strand, and for other applications requiring spatial separation of modifier and oligo.



Structure of Spacer 18 (hexaethyleneglycol) phosphoramidite

General properties

Appearance:	colorless/yellowish oil
Molecular weight:	784.92
CAS number:	125607-09-2
Molecular formula:	$C_{42}H_{61}N_2O_{10}P$
Solubility:	good in most organic solvents
Quality control:	NMR 1H , ^{31}P , HPLC-MS (95%), testing in oligo synthesis
Storage conditions:	Storage: 12 months after receipt at $-20^\circ C$ in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light. Desiccate.

Oligo synthesis details

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