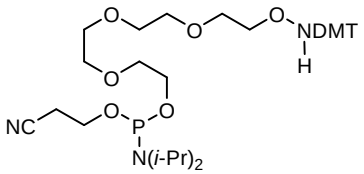
5'-Aminooxy-modifier-11 CEP

Product No. BA 0350

Product Information



$C_{38}H_{54}N_3O_8P$
Mol. Wt.: 711.82

The use of oxime formation in ligation reactions of oligonucleotides has been widely established in the literature for over a decade.[1] As examples, 5'-aminooxy-modifiers have been used in oxime ligation for peptide-oligonucleotide conjugates,[2] attachment of nucleosides to solid supports,[3] and head to tail cyclization of oligonucleotides.[4] For the synthesis of an oligo bearing a 5'-aminooxy group we now offer 5'-Aminooxy-modifier-11 CEP (**BA 0350**).

Use: For oligonucleotide synthesis, employ acetonitrile diluent at the concentration recommended by the synthesizer manufacturer. Use standard coupling protocols; in our hands, extended coupling times were not required, and coupling efficiencies of > 99 % could be obtained. Cleavage from the solid support may be carried out by standard procedures. Standard nucleobase deprotection conditions may be employed.

References

1. For recent reviews see: a) Zatsepin, T.S.; Stetsenko, D.A.; Gait, M.J.; Oretskaya, T.S. *Bioconjugate Chem.*, **2005**, *16*(3), 471-89. b) Singh, Y.; Edupuganti, O.P.; Villen, M.; Defrancq, E.; Dumy, P. *Comptes RendusChim.*, **2005**, *8*(5), 789-96.
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4. Edupuganti, O.P.; Defrancq, E.; Dumy, P. *J. Org. Chem.*, **2003**, *68*, 8708-10.