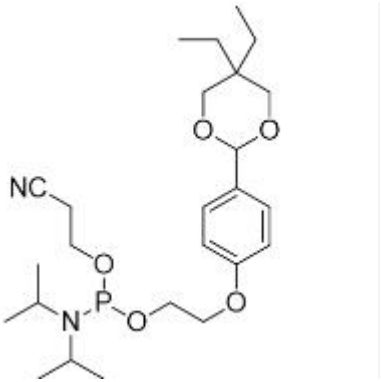
5'-Aldehyde Modifier C2 phosphoramidite

Article number: KF-YG0860

specification: 250mg

Product information

Structural formula:



Product description

Aldehyde modifiers will be an attractive electrophilic substitution in oligonucleotides because they can react with amino groups to form Schiff bases, with hydrazines to hydrazones, and with aminoureas to form acylureas. Schiff bases are unstable and must be reduced with sodium borohydride to form stable bonds, but hydrazones andureas form very stable bonds. Acetal protecting groups have sufficient

hydrophobicity for use in RP HPLC and column purification, and are easily removed during column purification under standard oligonucleotide trlation conditions using 80% acetic acid/20% water or 2% trifluoroacetic acid aqueous solution after oligonucleotide synthesis. Formylindole nucleoside analogs have been used introduce aldehyde groups within or at the 5' end of oligonucleotides. This product has no protecting group on the aldehyde, which means the modified oligonucleotide can be deprotected without the preferred conditions.

Product Nature

Molecular formula: C25H41N2O5P

Molecular weight: 480.58

M.: 28.14

CAS number: 433684-36-7

Transportation and storage

Transport conditions: Cold

Storage conditions: -15 to -30° C