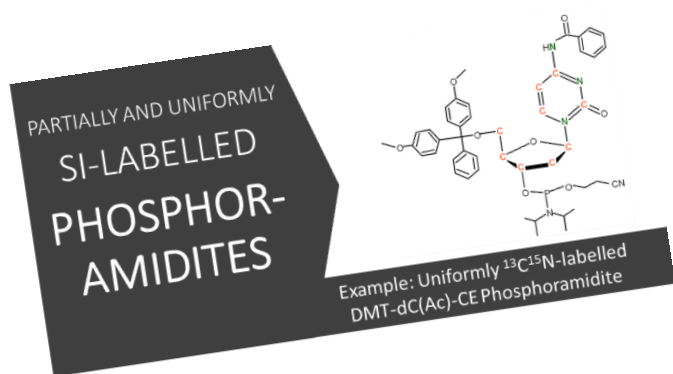




STABLE ISOTOPE-LABELLED PHOSPHORAMIDITES

and chemical oligo-synthesis service

Structural studies on large DNA and RNA molecules by nuclear magnetic resonance (NMR) require labeling of these molecules with stable isotopes.



Silantes offers a wide range of stable isotope-labelled ribo- and deoxyribo phosphoramidites in many combinations of the stable isotopes ^2H , ^{13}C and ^{15}N for the chemical synthesis of oligonucleotides (see information on the opposite page). The isotopic purity is >98 %.

Silantes also offers stable isotope-labelled nucleotides as well as an enzymatic synthesis service. Have a look at the currently available Silantes products and services at www.silantes-shop.com.

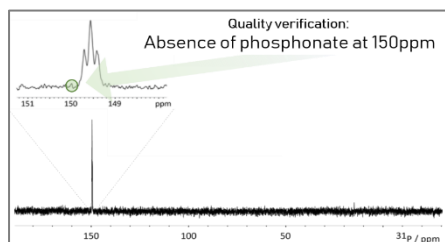
Deoxy-Phosphoramidites

Our stable isotope-labelled deoxy-phosphoramidites are uniformly labelled. They are chemically synthesized from deoxy-nucleosides obtained from ^{13}C - or ^{15}N -labelled DNA. Find the available patterns in our webshop.

Ribo-Phosphoramidites

The stable isotope labelled ribo-phosphoramidites are uniformly and site-specifically labelled and available in a variety of patterns of ^2H , ^{13}C and ^{15}N labels as shown in our webshop.

High quality at reasonable prices



The **isotopic enrichment of the amidites is >98 %** having a **chemical purity of >95 %**. This is confirmed by mass spectrometric analysis and ^{31}P -NMR. The figure shows that phosphonate (at 150ppm), a well-known contaminant in the synthesis of deoxy-phosphoramidites, is absent. The organic-biochemical approach permits us to offer the phosphoramidites at very competitive prices.

Stable isotope-labelled phosphoramidites

AND CHEMICAL OLIGO-SYNTHESIS SERVICE

The Silantes Chemical Oligo-Synthesis Service

Silantes offers a chemical oligo-synthesis service for DNA and RNA labelled with the stable isotopes ^2H , ^{13}C and ^{15}N and combinations thereof. **This chemical approach allows a nucleotide-specific labelling of DNA and RNA fragments.**

For uniform labelling, please see our **enzymatic oligo synthesis service** at www.silantes-shop.com.

The price of the synthesis service

Please send us

- length of the oligo,
- sequence of the oligo,
- labelled positions within the sequence,
- isotopic labelling and
- scale (100 nmol or 1.3 μmol).

Based on this information, we calculate the price for your project.

The delivery time is 6 weeks.

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