

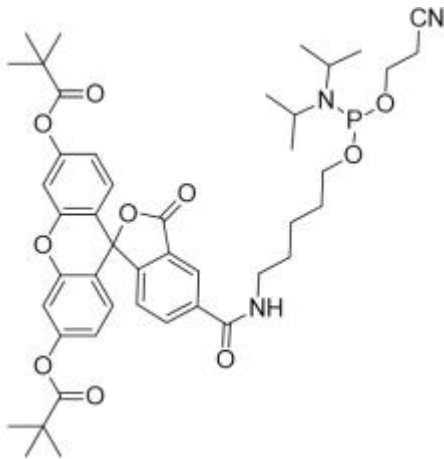
5-FAM, Single Isomer (5-CarboxyFluorescein-Aminohexyl Amidite)

Article number: KF-YG0849

specification: 50mg/100mg/250mg

Product information

Structural formula:



Product Application

Fluorescein-labeled oligonucleotides have become indispensable tools in genomic research and molecular biology. 5-Carboxyfluorescein phosphoramidite is for the 5'-labeling of fluorescent probes used in 5'-nuclease assays. This phosphoramidite



does not contain a DMT protecting group and can only be added the 5'-end of oligonucleotides. This product is prepared using only the 5-carboxyfluorescein isomer.

Synthesis conditions

Before dilution, ensure all products are at the bottom of the vial. Dilute to the recommended concentration and mix thoroughly in a sealed vial to ensure all contents dissolved.

Dilution: 100 μmol / mL

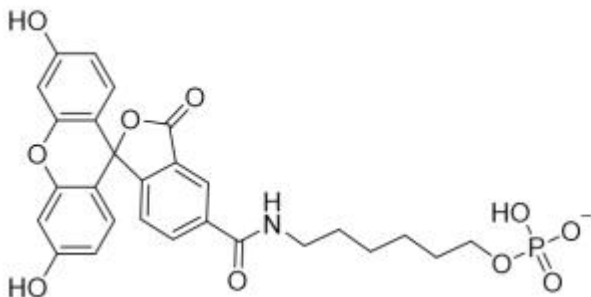
Coupling: 10-minute coupling

de-protection conditions

To use with fast-deprotecting phosphoramidites (i. e., C-Ac, G-DMF, G-PAC), please conc. NH₄OH at 60° C for 1 hour. To use with standard amides (i. e., C-Bz, G-iBu), use conc. NH₄OH at 60° C for 5 hours. If not all solutions are used during the synthesis process, they can be stored under argon, and functionality can be maintained for up to 48 hours.

Images of cleavage and deprotection structures:





After conjugation and post-treatment, the added mass of the product (the additional mass observed by mass spectrometry) is: 537.45

Product Nature

Molecular formula: C₄₆H₅₈N₃O₁₀P

Molecular weight: 843.94

Appearance: White

Maximum absorption (Lambda Max): 494

Extinction coefficient at Lambda max: 71300

Extinction coefficient at 260: 26900

Fluorescence maximum: 520

Transportation and storage

Transport conditions: Cold;

Storage conditions: -15 to -30° C

