

Cyanine3 phosphoramidite

<http://cn.lumiprobe.com/p/cy3-phosphoramidite-5>

Cyanine3 is a fluorophore that is widely used in molecular biology experiments such as oligonucleotide labeling followed by oligonucleotide detection. By its spectral characteristics, Cyanine3 is a dye with a fluorescence maximum at 570 nm in the yellow spectrum range.

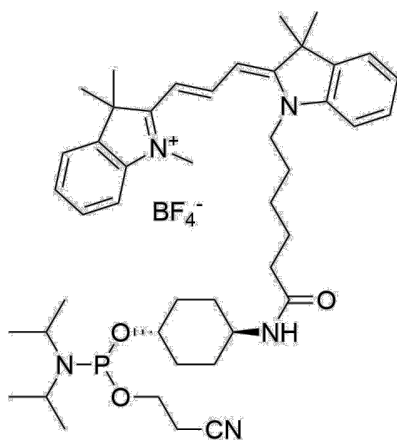
Cyanine3 phosphoramidite 5' is used in oligonucleotide synthesis for the production of 5'-cyanine3-labeled oligonucleotides. The reagent is compatible with various oligonucleotide synthesizers.

This phosphoramidite can be used for the synthesis of fluorescence-labeled primers and hybridization probes such as TaqMan and Molecular Beacon. Such labeled probes can be detected in multiplex real-time PCR in the TAMRA channel.

Usage:

Condensation: 3 min. Use 0.02 M iodine solution at the oxidation step to avoid degradation of the cyanine dye.

Deprotection: At room temperature with 30% aqueous ammonium solution. It is recommended to use nucleic bases with labile protective groups for deprotection for not more than 2 h at less than 55°C. AMA (30% aqueous ammonium solution/40% aqueous methylamine 1:1 (v/v)) can be used for 10 min at 65°C in the presence of acetyldeoxycytidine. If deoxyguanine with a dimethylformamide protective group is used during synthesis, deprotect with 30% aqueous ammonium solution for 2 h at 65°C. If deoxyguanine with an isobutyryl protective group is used during synthesis, deprotect for 24-36 h at room temperature.



外观:

分子 841.81

量:

分子 $C_{45}H_{65}N_5BF_4O_3P$

式:

溶解

度:

质量

控制:

储存

条件:

法律 本产品仅供研究目的提供和销售。 本产品并未经过食品、药品、医疗器械、化妆品等领域的安全性和效力测试，且未经明示或暗示授权用于其他任何用途，包括但不限于体外诊断、人类或动物用途，以及商业用途。

激发/ 555

吸收

极大

值,

纳米:

ϵ , 摩

尔吸

光系

数 cm^2

发射 570
极大
值，
纳米：
荧光 0.31
量子
产率：
CF₂₆₀: 0.04
CF₂₈₀: 0.09

稀释
剂：
偶联
条件：
解保
护条
件：