

## Cyanine3 phosphoramidite

http://hk.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.

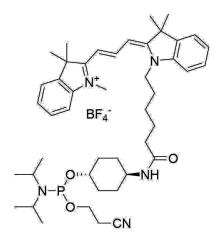
Cyanine3 phosphoramidite 5' is used in oligonucleotide synthesis for the production of 5'-cyanine3-labeled oligonucleotides. The reagent is compatible with various oligonucleotide synthesizers.

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 deoxyguanidine with a dimethylformamidine protective group is used during synthesis, deprotect with 30% aqueous ammonium solution for 2 h at 65°C. If deoxyguanidine with an isobutyryl protective group is used during synthesis, deprotect for 24-36 h at room temperature.



外观: 分子量: 分子式: 溶解度:	841.81 C <sub>45</sub> H <sub>65</sub> N <sub>5</sub> BF <sub>4</sub> O <sub>3</sub> P	
质量控制: 储存条件: 法律声明:	本產品僅供研究目的提供和銷售。本產品並未經過食品、藥品、醫療器械、化妝品等領域的安全性和效	
	力測試,且未經明示或暗示授權用於其他任何用途,包括但不限於體外診斷、人類或動物用途,以及商業用途。	
激发/吸收极大值,纳米: 555 ε,摩尔吸光系数, cm <sup>-1</sup> : 150000		

发射极大值,纳米: **570** 

荧光量子产率: 0.31

CF <sub>260</sub> :	0.04
CF <sub>280</sub> :	0.09
稀释剂: 偶联条件:	

解保护条件: