Lumiprobe Corporation
115 Airport Dr Suite 160
Westminster, Maryland 21157
美国
电话：+1 888 973 6353
传真：+1 888 973 6354
电子邮件：order@lumiprobe.com

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.

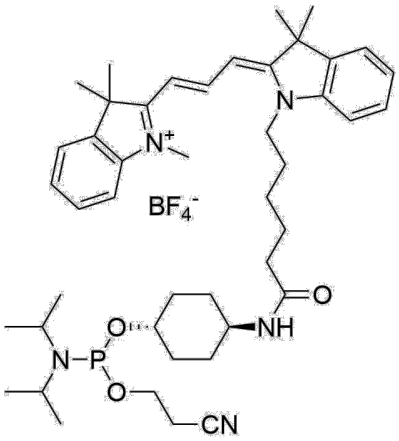
Cyanine3 phosphoramidite 5’ is used in oligonucleotide synthesis for the production of 5’-cyanine3-labeled oligonucleotides. The reagent is compatible with various oligonucleotide synthesizers.

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 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:	841.81
分子式:	$C_{45}H_{65}N_3BF_4O_3P$
溶解度:	
质量控制:	
储存条件:	

法律声明: 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/吸收极大值，纳米:	555
ε, 摩尔吸光系数 cm	150000

发射极大值，纳米: 570

荧光量子产率: 0.31

CF_{260}: 0.04

CF_{280}: 0.09

稀释剂:

偶联条件:

解保护条件: