

R6G phosphoramidite, 6-isomer

<http://hk.lumiprobe.com/p/6-r6g-phosphoramidite>

R6G phosphoramidite for oligonucleotide synthesis, pure 6-isomer.

R6G (rhodamine 6G) is a xanthene dye of the rhodamine family with high fluorescence quantum yield and high molar extinction coefficient. Relative to those of fluorescein, the absorption (518 nm) and emission (542 nm) maxima of 6-R6G are shifted into the long-wave region.

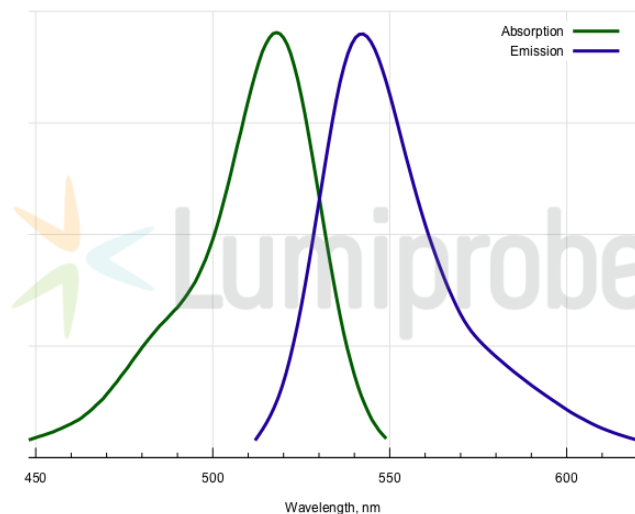
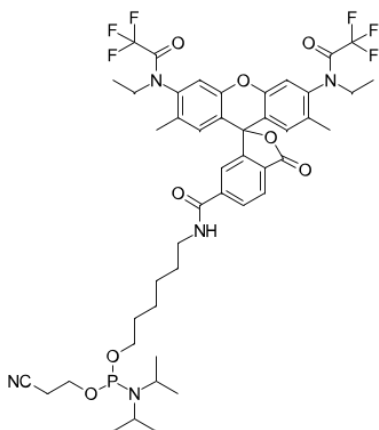
R6G can be used as a FRET acceptor in DNA-sequencing and in short tandem repeat (STR) analysis. The dye is commonly used for producing TaqMan probes for quantitative PCR. In comparison with HEX and JOE dyes, R6G in combination with BHQ1 quencher has stronger quenching in molecular beacon probes, significantly reducing background fluorescence in PCR.

Usage:

Coupling: 10 minutes.

Deprotection: solution of tert-Butylamine in water (1:3 v/v) overnight at 55°C.

Aqueous ammonia and AMA (solution of 30% ammonium hydroxide/40% aqueous methylamine 1:1 v/v) must NOT be used for deprotection of the modified oligonucleotide from the solid-phase support because of complete and irreversible R6G degradation.



外观:

分子量: 949.93

CAS 编号: 1355330-47-0

分子式: $C_{46}H_{54}F_6N_5O_8P$

溶解度:

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: 518

ϵ , 摩尔吸光系数, cm^{-1} : 116000

发射极大值， 纳米:	542
荧光量子产率:	0.95
CF ₂₆₀ :	0.18
CF ₂₈₀ :	0.17

稀释剂: