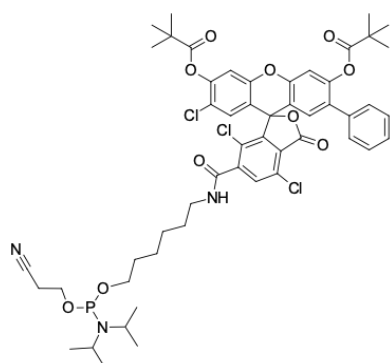


## VIC phosphoramidite, 6-isomer

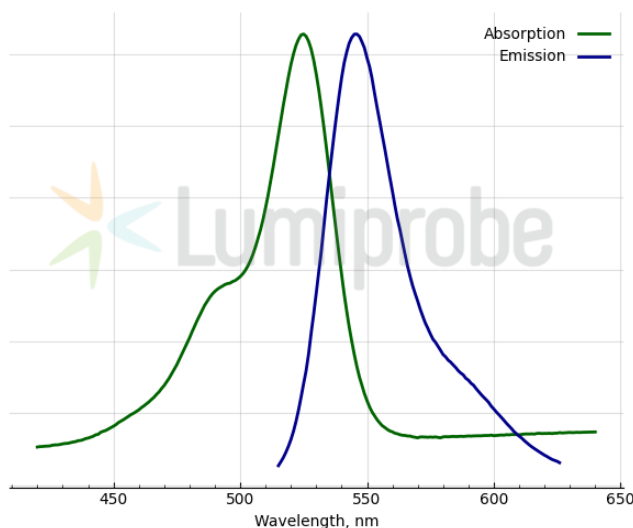
<http://www.lumiprobe.com/p/vic-amidite-6>

VIC is an asymmetrical xanthene dye (two flanking rings are not the same). This dye is used for the design of qPCR probes. The spectral properties of VIC are similar to HEX and JOE.

This phosphoramidite reagent allows to introduce the label onto 5'-terminus of the oligonucleotide.



**Structure of VIC amidite, 6-isomer**



**Absorption and emission spectra of 6-VIC**

### General properties

Appearance:	white / off white solid
Molecular weight:	1023.39
CAS number:	1414265-81-8
Molecular formula:	$C_{52}H_{59}Cl_3N_3O_{10}P$
Quality control:	NMR $^1H$ , $^{31}P$ and HPLC-MS (95+%), functional testing
Storage conditions:	12 months after receipt at $-20^{\circ}C$ in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate. Avoid prolonged exposure to light.
Legal statement:	This Product is offered and sold for research purposes only. It has not been tested for safety and efficacy in food, drug, medical device, cosmetic, commercial or any other use. Supply does not express or imply authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, in the manufacture of food or pharmaceutical products, in medical devices or in cosmetic products.

### Spectral properties

Excitation/absorption maximum, nm:	525
$\epsilon$ , $L \cdot mol^{-1} \cdot cm^{-1}$ :	103000
Emission maximum, nm:	546
Fluorescence quantum yield:	0.53
$CF_{260}$ :	0.07
$CF_{280}$ :	0.07

### Oligo synthesis details

Diluent:	anhydrous acetonitrile
Coupling conditions:	coupling time 10 min

Deprotection conditions:

Standard conditions with ammonium hydroxide; AMA (solution of 30 % ammonium hydroxide/40 % aqueous methylamine 1:1 v/v) (15 minutes at 65°C) can be used with minor side product forming.