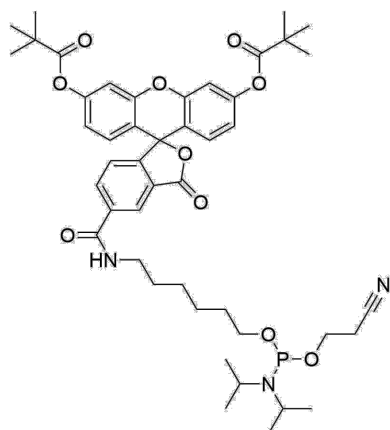


## FAM phosphoramidite, 5-isomer

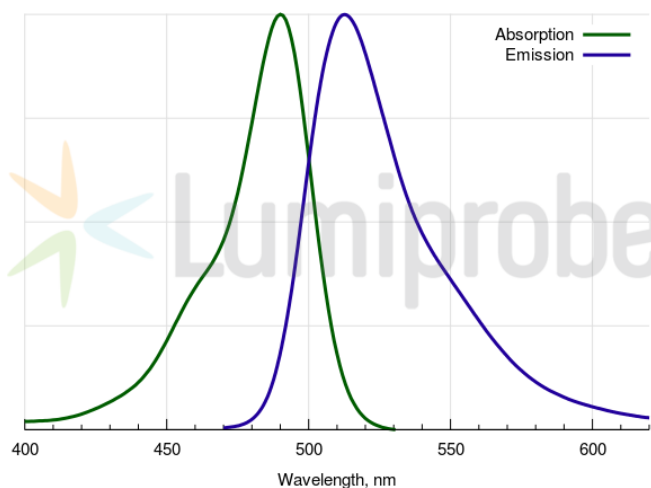
<http://www.lumiprobe.com/p/5-fam-phosphoramidite>

Standard fluorescein (FAM) phosphoramidite for 5'-terminal oligonucleotide labeling, high isomeric purity single isomer. This highly purified amidite reagent ensures excellent coupling results with various synthesizers.

Samples and special offers are available for oligo manufacturers. Contact us for bulk supplies of this reagent.



**Structure of FAM Phosphoramidite, 5-Isomer**



**FAM absorbance and emission spectra**

### General properties

Appearance:	off white solid
Molecular weight:	843.94
CAS number:	147566-42-5
Molecular formula:	C <sub>46</sub> H <sub>58</sub> N <sub>3</sub> O <sub>10</sub> P
Solubility:	Good solubility in acetonitrile and DCM
Quality control:	NMR <sup>1</sup> H and <sup>31</sup> P, HPLC-MS (95+%), isomeric purity > 97%
Storage conditions:	Storage: 12 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light. Desiccate.
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:	492
ε, L·mol <sup>-1</sup> ·cm <sup>-1</sup> :	72000
Emission maximum, nm:	517
Fluorescence quantum yield:	0.93
CF <sub>260</sub> :	0.22
CF <sub>280</sub> :	0.17

### Oligo synthesis details

Diluent:	acetonitrile
Coupling conditions:	coupling time 10 min
Cleavage conditions:	ammonia, 2 h at room temperature

Deprotection conditions:

identical to protected nucleobases; when AMA is used, deblock with ammonia alone for 30 min, then add methylamine