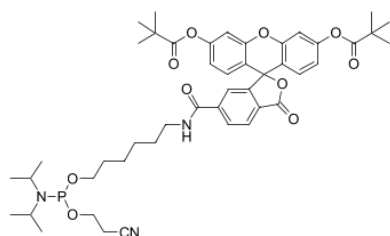


FAM phosphoramidite, 6-isomer

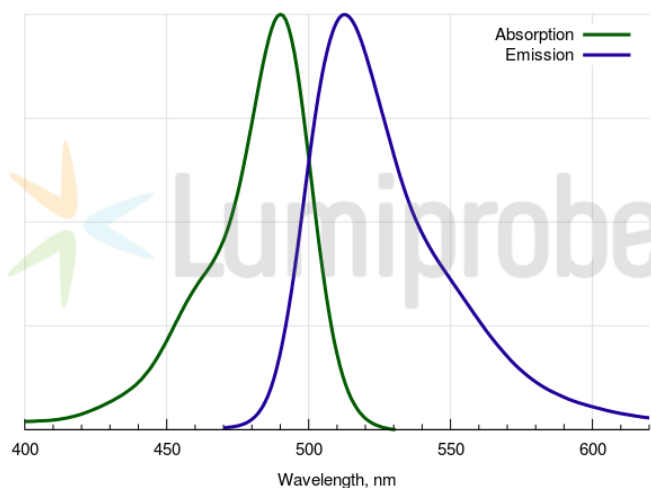
<http://www.lumiprobe.com/p/6-fam-phosphoramidite>

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.



6-FAM phosphoramidite structure



FAM absorbance and emission spectra

General properties

Appearance:	white powder
Molecular weight:	843.94
CAS number:	204697-37-0
Molecular formula:	C ₄₆ H ₅₈ N ₃ O ₁₀ P
Solubility:	Good solubility in acetonitrile and DCM
Quality control:	NMR ¹ H and ³¹ 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 2 weeks. Avoid prolonged exposure to light. Desiccate.

Spectral properties

Excitation/absorption maximum, nm:	492
ε, L·mol ⁻¹ ·cm ⁻¹ :	74000
Emission maximum, nm:	517
Fluorescence quantum yield:	0.93
CF ₂₆₀ :	0.22
CF ₂₈₀ :	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