

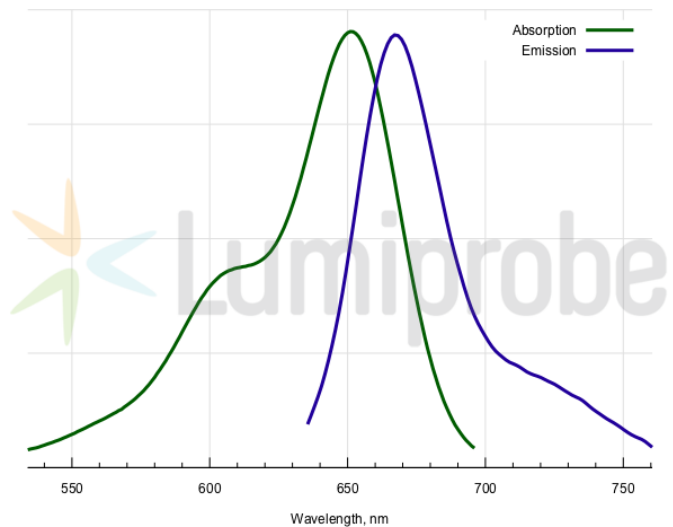
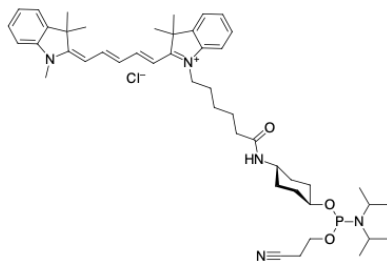
Cyanine5 phosphoramidite

<http://de.lumiprobe.com/p/cy5-phosphoramidite-5>

Cyanine5 is one of the dyes that are used in qPCR. The corresponding filter set is found on many qPCR machines.

This reactive derivative is useful for the synthesis of qPCR probes having Cyanine5 at 5'-end, the most typical location of the fluorophore. This is a terminating, non-nucleoside reagent.

Amidite group in this reagent is bound to a secondary oxygen. This provides extra stability against Arbuzov rearrangement - a reaction that leads to amidite deterioration in solution in oligonucleotide synthesizer. This molecular design increases the stability of the reagent, maintaining efficient coupling over a longer time.



Allgemeine Eigenschaften

Erscheinungsform:	
Molekülmasse:	816.49
Molekülformel:	$C_{47}H_{67}N_5ClO_3P$
Qualitätskontrolle:	NMR 1H , ^{31}P , HPLC-MS (80%)
Lagerungsbedingungen:	Lagerung: 12 Monate nach Wareneingang bei -20 °C im Dunkeln. Transport: bei Raumtemperatur bis zu drei Wochen. Längere Lichteinwirkung vermeiden. Trocken lagern.

Spektrale Eigenschaften

Anregungs-/Absorptionsmaximum / nm:	646
ϵ / $L \cdot mol^{-1} \cdot cm^{-1}$:	250000
Emissionsmaximum / nm:	662
Fluoreszenz-Quantenausbeute:	0.2
CF_{260} :	0.03
CF_{280} :	0.04

Verdünnungsmittel:	Acetonitril
Kopplungsbedingungen:	
Schutzgruppen entfernen:	