### Cy5.5

**Category** | Fluorescent Dyes
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Modification Code | Cy5.5
Reference Catalog Number | 26-6460
5 Prime | Y
3 Prime | Y
Internal | Y
Molecular Weight(mw) | 633.74

Cyanine 5.5 (Cy5.5) is a fluorescent dye that belongs to the Cyanine family of synthetic polymethine dyes. Cy5.5 is reactive, water-soluble, and has an absorbance maximum of 675 nm and an emission maximum of 694 nm. It is available as a phosphoramidite, and is used to fluorescently label oligonucleotides at either the 5'- or 3'-end, or internally. Cy5.5 plays a particularly important role in real-time PCR applications, being used as a reporter moiety in TaqMan probes (1), Scorpion primers (2) and Molecular Beacons (3). For such probes, Cy5.5 is most commonly paired with the dark quencher BHQ-3, as the two have excellent spectral overlap.

Cy5.5 can also be used to label DNA oligos for use as hybridization probes in other applications, such as Fluorescent In-Situ Hybridization (FISH). **References**