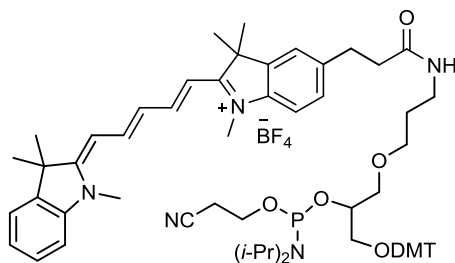


## X,5'-Cyanine 5 CEP

Product No. BA 0404

### Product Information



$C_{66}H_{83}N_5O_7P \cdot BF_4$   
Mol. Wt.: 1176.20

Since the early 1990's, cyanine dyes have been a valuable labeling tool for nucleic acids. In general, cyanine dyes have high extinction coefficients with longer dyes having higher absorbance and emission wavelengths. These dyes are easy to use as they tend to have high fluorescence and low non-specific binding to biomolecules. Our X,5'-Cyanine 5 CEP can be incorporated internally or at the end of the oligo sequence. Care must be taken in the cleavage and deprotection steps to avoid label loss.

**Use:** To prevent label degradation during deprotection, monomers that can be deprotected under "UltraMILD" deprotection conditions should be used. Dissolve the phosphoramidite in acetonitrile at concentrations recommended by the synthesizer manufacturer. Coupling should be carried out using standard instrument protocols. Cleavage should be carried out with potassium carbonate in methanol (0.05M). Coupling efficiencies of > 98% can be obtained with BA 0404.