LC Cyan 500-N

Category	Fluorescent Dyes
Modification Code	LC-C500-N
Reference Catalog Number	26-6688
5 Prime	Y
3 Prime	Y
Internal	Y
Molecular Weight(mw)	580

Click here for a list of fluorophores.

This modification is a post synthesis conjugation to a primary amino group thus an additional modification with an amino group is required. A C3, C6 or C12 amino group can be placed at the 5' or for the 3' end a C3 or C7 amino and for internal positions an amino modified base is used, e.g Amino dT C6.

Yield of Post Synthesis NHS, Maleimide & Click Ligand Conjugation* Oligo Scale of Synthesis Yield, nmols 50 nmol 2 nmol 200 nmol 5 nmol 1 umol 16 nmol 2 umol 30 nmol 5 umol 75 nmol 10 umol 150 nmol 15 umol 225 nmol * The yield will be lower for oligos longer than 50mer. Click here for yield table of long oligos. * Click here for RNA Oligos scale of synthesis and yield. **NHS Ligand conjugation** requires a primary amino group. Gene Link offers a wide selection of amino modifications for 5', 3' and internal sites. Click here for a list of conjugation chemistry modifications. **Maleimide Ligand conjugation** requires a thiol group. Gene Link offers a wide selection of thiol modifications for 5', 3' and internal sites.

Click here for a list of conjugation chemistry modifications. **Click Chemistry Ligand conjugation** requires a corresponding Click modification; examples Alkyne:Azide, Azide:DBCO, BCN:Azide, BCN: TCO:Tetrazine. Gene Link offers a wide selection of click modifications for 5', 3' and internal sites. Click here for a list of click chemistry modifications.

Cyan 500 NHS ester is an amine-reactive fluorescent label. It is designed and recommended by Roche for application in LightCycler® instruments. The dye is used to label amino-modified oligonucleotides which can be detected on excitation at 430 nm in Roche LightCycler® instruments.
Fluorescence properties of LC Cyan 500 has an Excitation max of 436 nm and Emission max at 481 nm. A close substitution will be AF488 with Excitation max of 494 nm and Emission max at 517 nm or Fam Excitation max of 495 nm and Emission max at 520 nm.