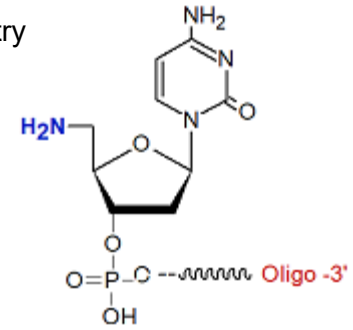
Amino dC 5'

Category	Conjugation Chemistry
Modification Code	5-Am-dC
Reference Catalog Number	26-6657C
5 Prime	Y
3 Prime	N
Internal	N
Molecular Weight(mw)	288.19



5'-Amino dC
[26-6657C-XX]

5'-Amino dT can be used to incorporate an active primary amino group into either a DNA oligonucleotide or a chimeric oligo at the 5'. This amino group is directly attached at the 5' end. The 5'-Amino dT modification does not have a spacer. The presence of the primary amino group allows the user to label the oligo with a variety of different ligands for affinity, reporter or protein moieties (as NHS esters or isothiocyanates), depending on the application. Examples include biotin, digoxigenin, and fluorescent dyes or quenchers, magnetic beads and enzymes (for example, alkaline phosphatase).

-

The primary amine labelled oligos can also be conjugated to carboxyl functional groups usually for solid supports applications using EDC mediated reaction as shown in the figure below.