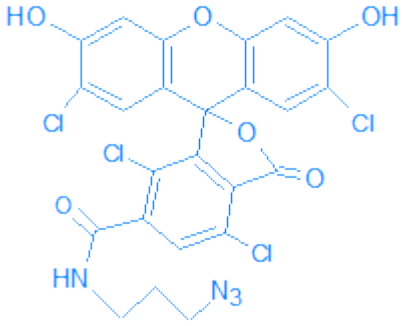
Oligo Modifications

For research use only. Not for use in diagnostic procedures for clinical purposes.

Tet-Azide

Category	Click Chemistry
Modification Code	Tet-N3
Reference Catalog Number	26-6724
5 Prime	Y
3 Prime	Y
Internal	Y
Molecular Weight(mw)	596.2



6-TET Azide
[26-6724-XX]

This modification is a post synthesis conjugation to an alkyne or DBCO modification at the appropriate site for click conjugation.

TET (Tetrachloro fluorescein)-Azide is a fluorescent dye containing a terminal azide group. TET has an absorbance maximum of 522 nm and an emission maximum of 538 nm. The presence of the azide allows the user to use “Click Chemistry” (a [3+2] cycloaddition reaction between alkynes and azides, using copper (I) iodide as a catalyst) to conjugate the TET-Azide to a terminal alkyne-modified oligo with extremely high regioselectivity and efficiency (1,2). Preparation of the alkyne-modified oligo can be achieved using the 5’-Hexynyl modifier (see its respective tech sheet for details). **References**

1. Huisgen, R. *Angew. Chem. Int. Ed.* (1963), **2**: 565-568.
2. Rostovtsev, V.V., Green, L.G., Fokin, V.V., Sharpless, K.B. A Stepwise Huisgen Cycloaddition Process: Copper(I)-Catalyzed Regioselective Ligation of Azides and Terminal Alkynes. *Angew. Chem. Int. Ed.* (2002), **41**: 2596-2599.