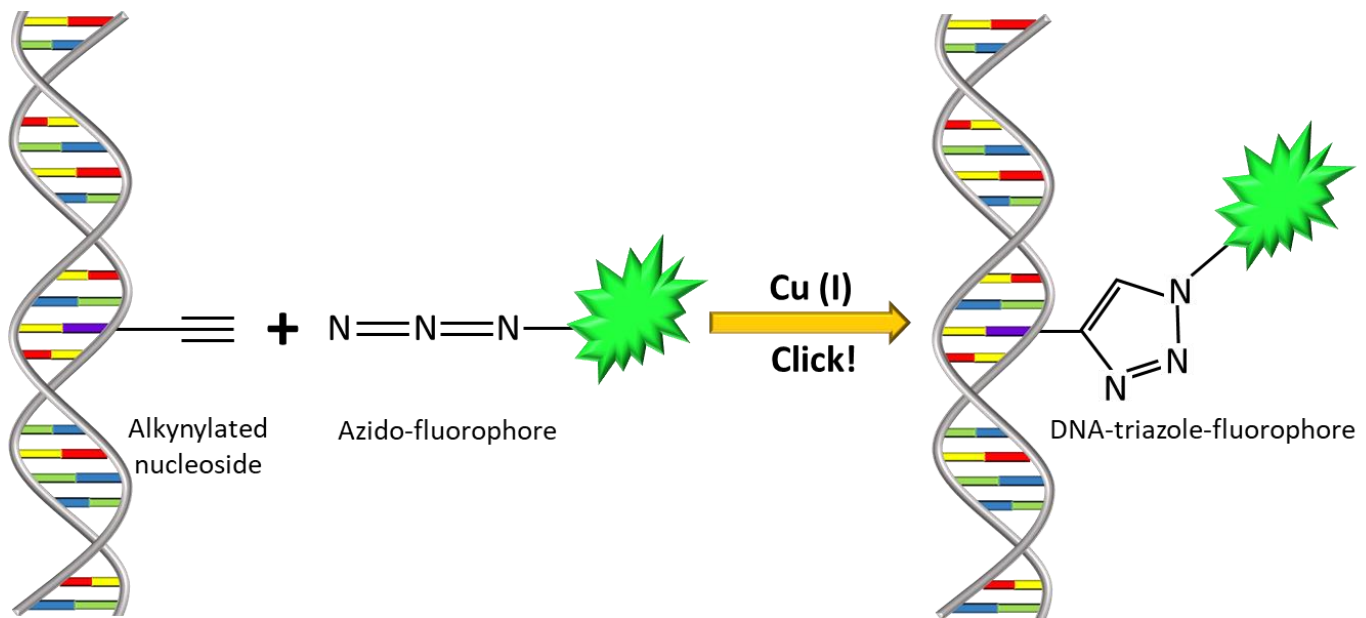


Nucleic Acid Labeling: Click!

Click chemistry allows selective, quantitative and cell-compatible conjugation of nucleic acids with different markers. The labelling consists of a two-step protocol: I) functionalized nucleosides are incubated with cells and incorporated in DNA/RNA by the replication/transcription machinery. II) The conjugation with a functionalized fluorophore occurs in the presence of a Cu (I) catalyst. The key functional groups employed in click chemistry are azido and alkynyl groups which form a covalent triazole linkage, resistant to intracellular enzymes. This is a versatile approach to monitor global DNA/RNA synthesis, cytosine methylation and allows functionalization of nucleic acids.



Code	Product	Activity	Quantity	Price (\$)
Alkyne-functionalized compounds				
NE08701	5-Ethynyl-2'-deoxyuridine (5-EdU)	DNA synthesis probe	100 mg	65.00
NE31862	5-Ethynyluridine (5-EU)	RNA synthesis probe	50 mg	42.00
Azido-functionalized compounds				
NA06674	8-Azidoadenosine	RNA synthesis probe	25 mg	81.25
NA16510	5-Azidouridine	RNA synthesis probe	10 mg	75.00
NA04422	8-azido-ATP	ATP analogue	1 mg	165.00
MU11564	UDP-6-N3-Glc	Cytidine methylation probe	0.5 mg	150.00
FC72896	6-Carboxyfluorescein-azide (6-FAM azide)	Fluorescent probe; Ex495/Em517 nm	0.5 mg	60.00
FA31762	3-Azido-7-hydroxycoumarin	Fluorescent probe; Ex404/Em477 nm	50 mg	125.00
FB162258	Biotin-PEG4-azide	Azide-activated biotin-PEG4 probe	10 mg	50.00