

CLICK CHEMISTRY REAGENTS

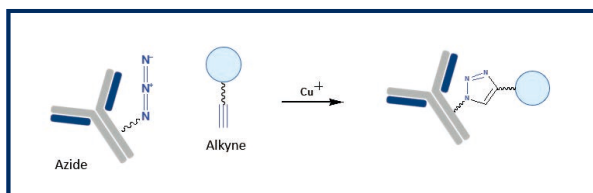
Click Chemistry has been widely used in pharmaceutical & biotech R&D.

In the 1st generation of Click Chemistry, Cu(I) is required as a catalyst in the reaction between a terminal alkyne and the azide. The toxicity of Cu(I) ions can cause oxidative damage to biomolecule.

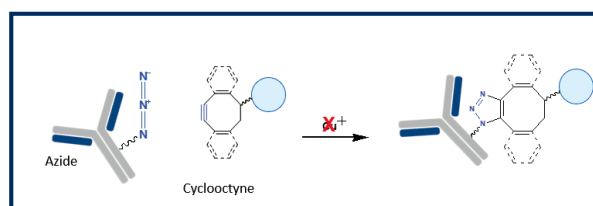
The 2nd generation of Click Chemistry is biocompatible by using strain-promoted azide-alkyne Click Chemistry without catalyst. Strained cyclooctynes have a significantly decreased activation energy compared to terminal alkyne.

The 3rd generation of Click Chemistry is the ligation between tetrazine and alkene (trans-Cyclooctene). This high-speed reaction is also copper free which is ideal for in vivo cell labeling.

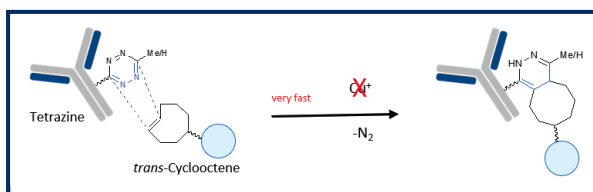
1st Generation



2nd Generation



3rd Generation



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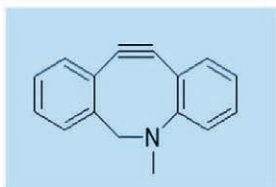
WEB : www.shigematsu-bio.com/

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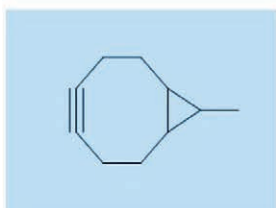
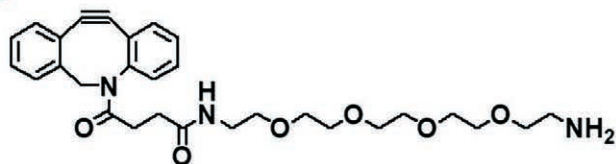
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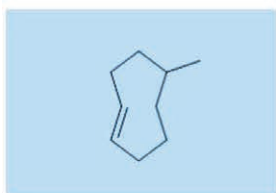
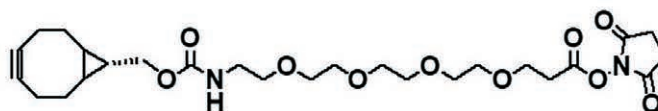
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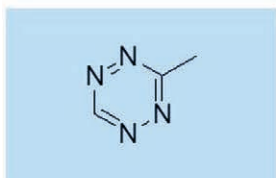
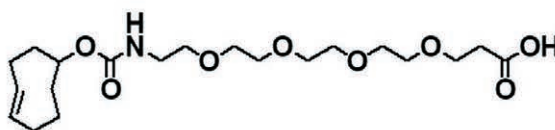
DBCO



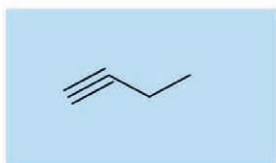
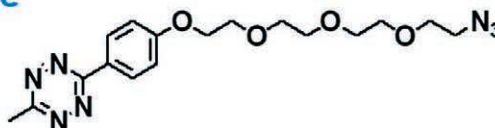
BCN



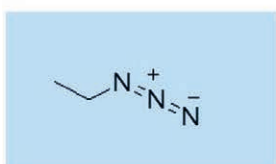
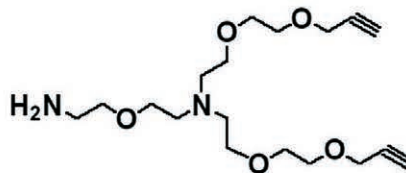
TCO



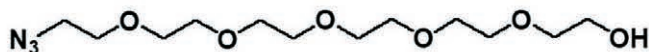
Tetrazine



Alkyne



Azide



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