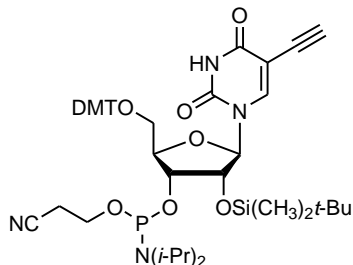


## 5-Ethynyl Uridine CEP

**Product No. BA 0353**

### *Product Information*



$C_{47}H_{61}N_4O_9PSi$

Mol. Wt.: 885.07

Oligonucleotides with 5-ethynyl residues may also be used in transition metal-catalyzed coupling reactions. Two ethynyl-bearing oligonucleotides can be homo-coupled via a diyne linkage using copper catalysis. Further, the ethynyl groups may be used in coppercatalyzed couplings with arylacetylenes bearing anthraquinone, biotin, or fluorescein appendages.<sup>1</sup> Palladium catalyzed cross-coupling of ethynyl-dU-bearing oligonucleotides with 2-iodoanthraquinone provides anthraquinone-bearing nucleic acids useful in electrochemical applications of DNA.<sup>2</sup>

**Use:** For oligonucleotide synthesis, employ acetonitrile diluent at the concentration recommended by the synthesizer manufacturer. Use standard coupling protocols for RNA. Cleavage from the solid support may be carried out by standard procedures.

### References

1. Minakawa, N.; Ono, Y.; Matsuda, A. *J. Am. Chem. Soc.* **2003**, *125*, 11545-11552.
2. Gorodetsky, A. A.; Green, O.; Yavin, E.; Barton, J. K. *Bioconjugate Chem.* **2007**, *18*, 1434-1441.