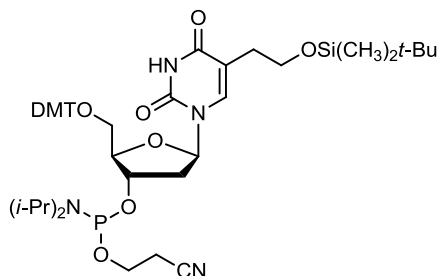


## 5-(2-Hydroxyethyl) dU CEP

Product No. BA 0378

### Product Information



C<sub>47</sub>H<sub>65</sub>N<sub>4</sub>O<sub>9</sub>PSi  
Mol. Wt.: 889.10

Branching oligonucleotides are useful tools in biological diagnostics and nanotechnology.<sup>1,2</sup> Our 5-(2-Hydroxyethyl) dU CEP is a branching monomer that allows placement of branch points at discrete locations along an oligo chain. In addition to serving as a branch point for continued oligo synthesis, once deprotected, the hydroxyethyl group serves as a convenient handle for attaching a variety of reactive moieties and labels.

**Use In Oligo Synthesis:** Dissolve the phosphoramidite in acetonitrile at concentrations recommended by the synthesizer manufacturer. Coupling should be carried out using DCA for detritylation. TCA can be employed for on column removal of the TBS protecting group at room temperature (syringe to syringe over 1 hr.). Cleavage from the solid support and deprotection can be carried out under standard conditions.

### References

- 1) Li, Z.; Jin, R.; Mirkin, C.A.; Letsinger, R.L. *Nucleic Acid Research*, **2002**, *30*, 1558-1562.
- 2) Olsen, P.A.; McKeen, C.; Krauss, S. *Gene Therapy*, **2003**, *10*, 1830-1840.