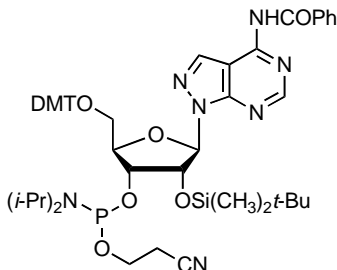


8-Aza-7-deaza-A CEP (BA 0267) Product Information



The 2'-deoxyribonucleoside phosphoramidite 8-aza-7-deaza-dA CEP, also known as PPA CEP (our product number BA 0237), features a nucleobase that is isosteric with adenine but offers a different π -electron distribution and thus an altered dipole moment, resulting in stronger stacking interactions in oligonucleotides.¹ We now offer the *ribonucleoside* version, 8-Aza-7-deaza-A CEP (PPA Riboside CEP, BA 0267) for use in the synthesis of altered RNA oligonucleotides.

Coupling: In our hands, the standard 1 μ mol RNA protocol on an Expedite 8909 synthesizer (12 min coupling time and standard dilution) led to incorporation of 8-aza-7-deazaadenosine with ca. 98% efficiency.

Cleavage, nucleobase deprotection, and desilylation: Cleavage from the support was accomplished using 3:1 concentrated ammonium hydroxide/ethanol at room temperature for 1.5 h. The remaining nucleobases should then be removed by further contact with ammonium hydroxide/ethanol under conditions that are consistent with the type of base protecting groups being employed. Standard desilylation and purification should be viable.

Reference:

- (1) Seela, F.; Kaiser, K. *Helv. Chim. Acta* **1988**, *71*, 1813-1823. Seela describes the N^6 -benzoyl version of the phosphoramidite of 2'-**deoxy**-8-aza-7-deaza-A. The N -(dimethylamino)methylidene version of the 2'-deoxy version is available from Berry & Associates (#BA 0239) or from Glen Research (#1083).