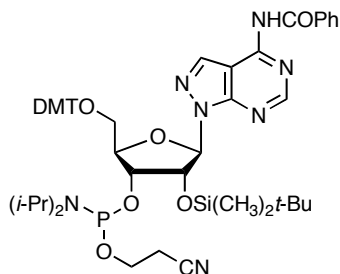


8-Aza-7-deaza-A CEP (BA 0267) Product Information



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.

Please note: This product is from our Experimental Grab Bag. The compounds in this unique collection have not been validated for any particular purpose, though we have found this particular product to be successfully incorporated into oligonucleotides. We hope that you may find it of interest, but please be aware that its purchase and use is at your own risk.

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).