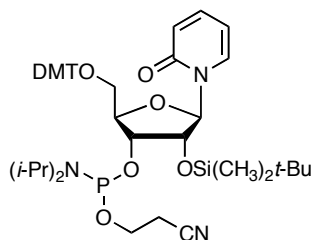


Pyridin-2-one Riboside CEP (BA 0264)

Product Information



Beigelman and co-workers have carried out structure-activity studies on hammerhead ribozymes by substituting modified pyrimidines at various positions, where profound effects on ribozyme catalytic activity have been observed.¹ Pyridin-2-one Riboside CEP² was found to be useful in these studies, providing alterations in syn/anti nucleobase orientation, ribose puckering, and stacking ability due to dipole changes.¹⁻⁴

Coupling, cleavage, and nucleobase deprotection: Please consult references (1) and (2) for the use of this phosphoramidite, which involves standard methods.

References:

- (1) Beigelman, L.; Matulic-Adamic, J.; Karpeisky, A.; Haerberli, P.; Sweedler, D. *Methods in Enzymology* **2000**, *317*, 39-65.
- (2) Matulic-Adamic, J.; Gonzalez, C.; Usman, N.; Beigelman, L. *Bioorg. Med. Chem. Lett.* **1996**, *6*, 373-378.
- (3) Baidya, N.; Ammons, G. E.; Matulic-Adamic, J.; Karpeisky, A. M.; Beigelman, L.; Uhlenbeck, O. C. *RNA* **1997**, *3*, 1135-1142.
- (4) Burgin, A. B., Jr.; Gonzalez, C.; Matulic-Adamic, J.; Karpeisky, A. M.; Usman, N.; McSwiggen, J. A.; Beigelman, L. *Biochemistry* **1996**, *35*, 14090-14097.