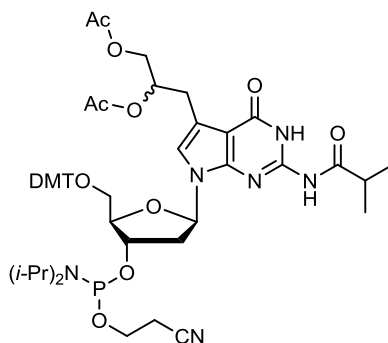


7-Deaza-7-(2,3-diacetoxypropyl)-dG CEP
Product No. BA 0393

Product Information



$C_{52}H_{65}N_6O_{12}P$
Mol. Wt.: 997.10

DNA interstrand cross links (ICLs) are well known, highly cytotoxic DNA lesions. Based on the work reported by Angelov *et al.*, 7-Deaza-7-(2,3-diacetoxypropyl)-dG CEP can be used for the site-specific introduction of ICL precursor nucleosides into opposing strands of DNA.¹ Following deprotection, oxidation and reductive amination reactions, major groove ICLs can be isolated and have been used for the study of ICL repair mechanisms.²

Use: For oligonucleotide synthesis, employ acetonitrile diluent at the concentration recommended by the synthesizer manufacturer. Standard coupling protocols, cleavage and deprotection conditions may be employed to give coupling efficiencies > 98%.

Reference

- 1.) Angelov, T.; Guainazzi, A.; Schärer, O.D., *Org. Lett.* **2009**, *11*(3), 661-664.
- 2.) Deans, A.J.; West, S.C. *Nature Reviews Cancer*, **2011**, *11*, 467-480.