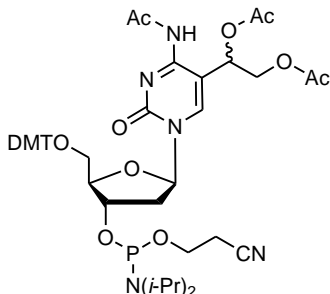


Masked-5-formyl-dC CEP
Product No. BA 0367

Product Information



$C_{47}H_{58}N_5O_{12}P$
Mol. Wt.: 915.96

2'-Deoxycytidine methylation is an important and well studied modification of DNA. The cytosine methylation alters DNA structure without impacting base pairing. This modification affects binding of transcription factors and subsequent gene express and is, therefore, an important epigenetic marker. For the human p53 gene, the predominant mutation is a C to T transition, and Matsuda and co-workers have reported findings that indicate this transition can be caused by the formation of 5-formyl-2'-deoxycytidine.¹ Based on their findings; we have introduced BA 0367 into our product line and a useful tool for further studies.

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%.

(1) Karino, N.; Ueno, Y.; Matsuda, A. *Nucleic Acids Research*. **2001**, 29 (12), 2456-2463.