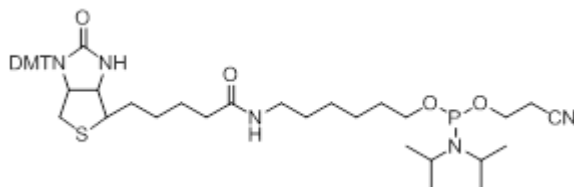




5'-Biotin Phosphoramidite

Cat. No.: 11-2101-XX



Properties:

- **Formula:** C₄₆H₆₄N₅O₆PS
- **Molecular Weight:** 846.08
- **Appearance:** white foam solid

Product Usage:

- **Synthesis Conditions:**

Prior to dilution ensure that all product is at the bottom of the vial. Dilute to the recommended concentration and mix thoroughly in the sealed vial to ensure that all contents are dissolved. For optimal coupling efficiency, we suggest adding 3-8 molecular sieves per 100 μ L (Aldrich # 33, 427-8; 3Å, 3.2 mm) to the amidite solution.

- **Dilution:**

100 μ mol/mL

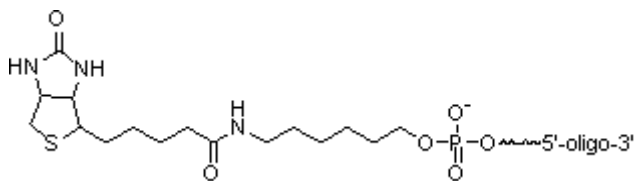
- **Deprotection Conditions:**

The deprotecting conditions for this amidite will depend on the types of amidites used for the synthesis of the oligo. If using fast deprotecting amidites deprotect in concentrated NH₄OH for 1 hour at 60°C. If using standard amidites deprotect in concentrated NH₄OH for 5 hours at 60°C. The DMT group may be left on or removed prior to cleavage of the oligo.

Biotin amidite is hygroscopic and may lose activity if used or stored improperly.



Image of cleaved and deprotected structure:



- **The mass this product adds after conjugation and work-up (the additional mass seen by mass spectrometry) is: 405.45**

Storage and Handling:

- **Shipping Conditions:**

Cold

- **Storage Conditions:**

-15 to -30 °C