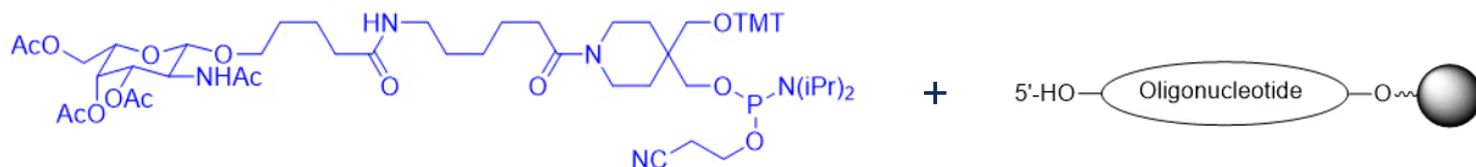


## Sequential Couplings Yield Trivalent GalNAc-oligo Conjugate

### 3 GalNAc Cluster at 5'-end DEMO

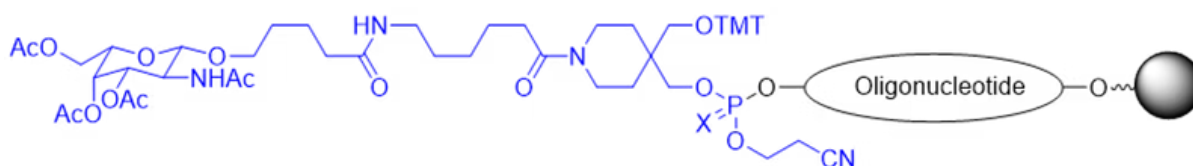
p/n: 51210



①

**A. Coupling**

**B. Oxidation (X=O) or sulfurization (X=S) using p/n: 30000**



②

**A. Two more coupling cycles with p/n: 51210**

**B. Detritylation**

**C. Basic deprotection**

