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Note Synthesis of 1,2-*cis*- and 1,2-*trans*-glycosides of 2-acetamido-4,6-O-benzylidene-2-deoxy-D-glucopyranose by anomeric Oalkylation

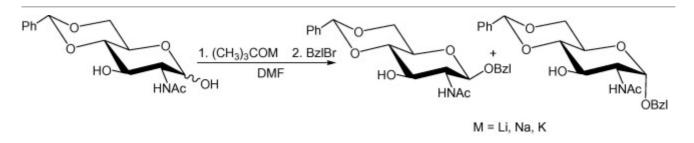
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Abstract

The reaction of a partially protected 1-hydroxy derivative of *N*-acetyl-D-glucosamine with <u>benzyl bromide</u> under conditions of anomeric O-alkylation was studied. It was found that the <u>stereoselectivity</u> of the reaction depended on the nature of the <u>alkali metal cation</u> constituent of a transient <u>ion pair</u>. The substitution of the Li⁺ cation for K⁺ or complexation with a <u>crown</u> <u>ether</u> allowed the steric outcome to be shifted from β - to α -selectivity.

Graphical abstract



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