α-*C*-Glycosides *via syn* Opening of 1,2-Anhydro Sugars with Organozinc Compounds in Toluene/*n*-Bu_2O

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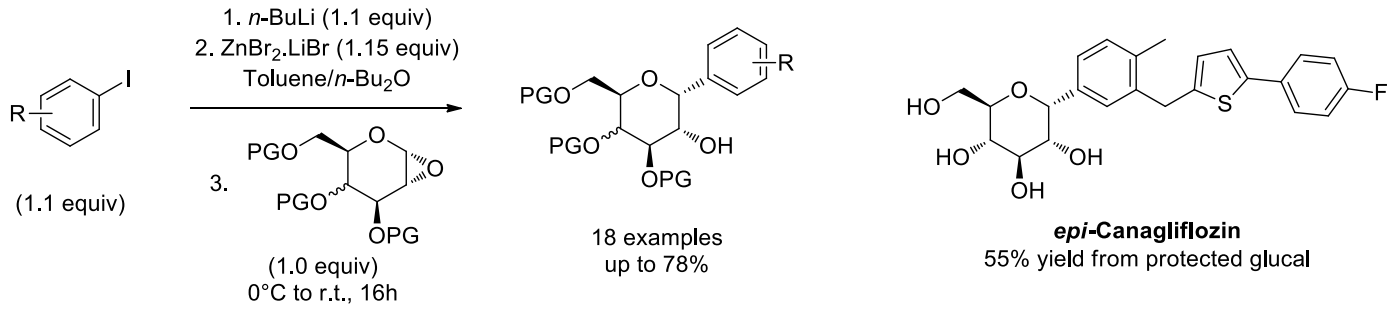
The diastereoselective addition of organozinc species to 1,2-anhydro sugars in toluene/*n*-dibutyl ether solvent is reported.[1] Compared to the existing methods, the reaction proceeds at 0°C and only a slight excess of nucleophile is required to achieve good yields. Scope was assessed with different *O*-protected glycals along with various nucleophiles (aryl, alkynyl). This methodology was applied to the synthesis of the -anomer of Canagliflozin.



[1] Wagschal, S.; Guilbaud, J.; Rabet, P.; Farina, V.; Lemaire, S. *J. Org. Chem* **2015**, *80*, 9328-9335.