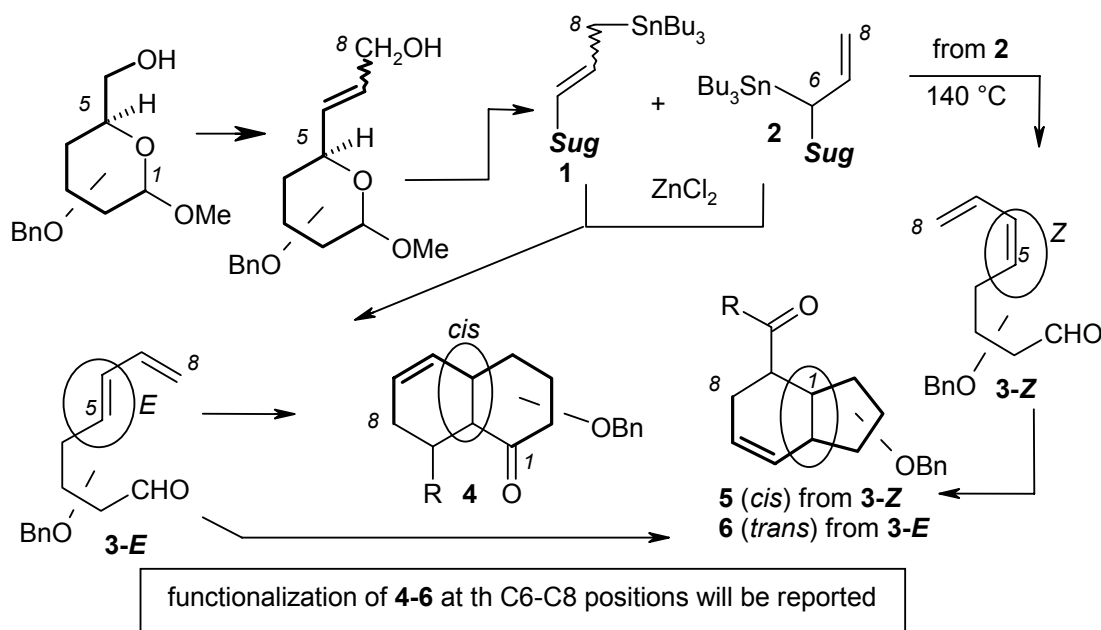


SUGAR ALLYLITINS: PREPARATION AND APPLICATION IN ORGANIC SYNTHESIS

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The general method for the preparation of the primary and secondary sugar allyltin derivatives (**1** and **2**) from simple monosaccharides will be presented. Their unique transformation induced with a Lewis acid or high temperature opens a convenient route to either *E* or *Z*-highly functionalized dienoaldehydes **3**.^{1,2}



These derivatives were used for the stereoselective preparation of various derivatives of bicyclo[4.4.0]decene (**4**)³ and bicyclo[4.3.0]nonene (**5** and **6**).⁴

Application of sugar allyltins for stereoselective preparation of homoallylic alcohols will also be discussed.

References:

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