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## A Family of Sugar-Monotriazole Conjugates

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In the last decade since the discovery of copper(I) catalyzed azide alkyne cycloaddition<sup>1</sup> 1,2,3-triazoles have gained much attention<sup>2</sup> and have been studied as biologically active compounds.<sup>3</sup>

Herein we present results of investigation of possibilities to modify C(3) position of D-glucose in order to synthesize carbohydrate-1,2,3-triazole conjugates.

Starting with diacetone-D-glucose derivative **1** different azide containing sugars **2** and **4** were synthesized (Fig.1). They were subjected to 1,3-dipolar cycloaddition reaction with commercially available alkynes

to acquire a small library of carbohydrate-triazole conjugates.

Selected compounds were tested for glycosidase inhibiting activity, but no significant activity was discovered.

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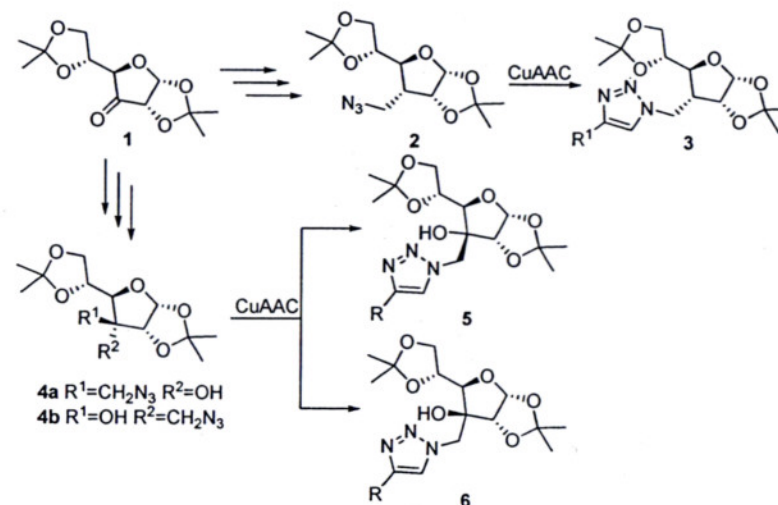


Fig.1 General approach for synthesis of azidosugars and corresponding triazoles