

A CONVENIENT APPROACH TO THE SYNTHESIS OF TRIAZOLES BEARING SUGAR MOIETIES

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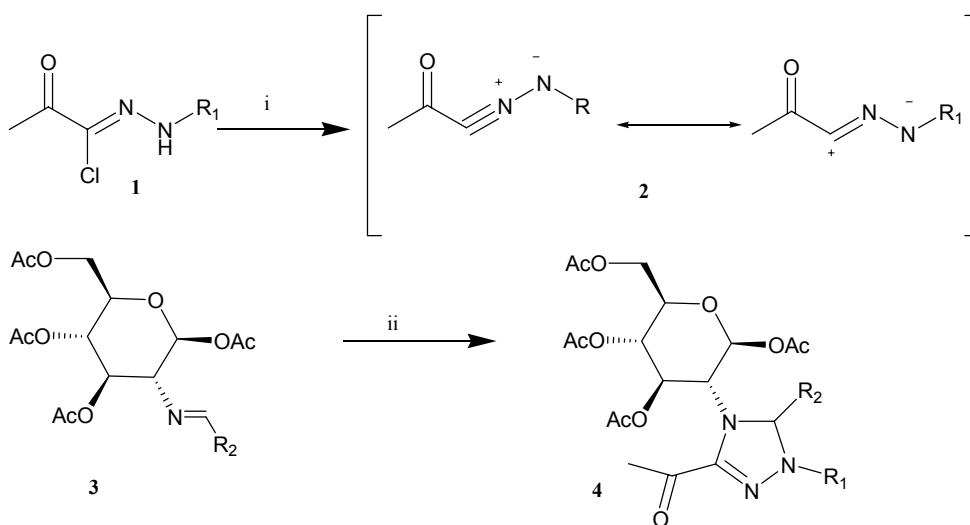
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An increasing interest has been directed to the synthesis of new triazoles as they show a variety of biological activities suggesting their high pharmaceutical potential. Recently we elaborated convenient routes to chiral heterocyclic systems using carbohydrate as starting material [1].

Moreover, nitrileimines like **2** generated *in situ* from their hydrazonyl chlorides **1** by action of triethylamine allow 1,3-dipolar cycloaddition with a variety of different dipolarphiles to afford the corresponding cyclocondensation adducts [2].

We hereby report a simple and novel method to the synthesis of new chiral triazoles by treatment of nitrileimines **2** with 1,3,4,6-tetra-*O*-acetyl-*N*-[substitutedbenzylidene]- α -*D*-glucoseamines **3** in refluxing ethanol to afford the corresponding triazoles **4** in high yields.



i) Et₃N, EtOH, 0 °C; ii) Et₃N, EtOH, reflux, 7 h.

References

- [1] R. J. Abdel-Jalil, M. Saeed and W. Voelter, *Tetrahedron Lett.*, 42, 2435-2437 (2001).
[2] E. M. Awad, N. M. Elwan and H. M. Hassaneen, *Helv. Chem. Acta*, 85, 320-332 (2002)